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# Aligning State Developmental Standards to Toddler and Early Childhood Montessori Practical Life and Sensorial Materials

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Aligning State Developmental Standards to Toddler and Early Childhood

Montessori Practical Life and Sensorial Materials

An Action Research Report

By Amanda Fink and Erin Conway

Aligning State Developmental Standards to Toddler and Early Childhood Montessori Practical Life and Sensorial Materials Submitted on May 4, 2015 in fulfillment of final requirements for the MAED degree Amanda Fink and Erin Conway Saint Catherine University St. Paul, Minnesota

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#### Abstract

The purpose of this research was to determine whether a progress report that aligns the Montessori materials to child development benchmarks would increase parent understanding of the Montessori materials, as well as give teachers a means of reporting growth that is systematic and consistent. Trial reports were created aligning the toddler and early childhood practical life and sensorial curriculum areas to the state standards. Parents were asked to compare the current reports with the new reports. The post-implementation survey results suggested that 97% of parents better understood the alignment between the Montessori materials and child development and 100% of teachers affirmed the new reports made a clear association between the two. The new reports clarified the alignment between the Montessori materials and children's development for parents and created a standard measurement tool for Montessori educators with the vernacular to explain the Montessori materials progression to parents.

The Montessori method of education is over a hundred years old. It has become well established and is respected by many. Despite the longevity, it remains misunderstood by many in the general population. Two of the most common Montessori programs are the Early Childhood level (ages three – six years) and the Toddler level (ages 18 months – three years). Of those parents who choose the Early Childhood and Toddler Montessori programs for their young children, many find the pedagogy hard to understand.

The method uses many manipulatives, and there is little paperwork or evidence that can be sent home with the child at the end of the day. In addition to this lack of verification, the Montessori pedagogy does not use a standard form of measurement to track a child's progress. Montessori teachers are taught to use observation to evaluate the children's progress and document based on their observations. These observations are individually interpreted and can, therefore, be inconsistent. The lack of a standard of measurement is a shortcoming of the Montessori programs and part of what contributes to the misunderstanding of the philosophy.

The conductors of this research asked: Would having a standard measurement of developmental progress in the Montessori Toddler and Early Childhood levels help teachers consistently evaluate the children's progress and help the parents to understand the progression of a Montessori education?

Research has shown (Dore, 2014; Vandergrift, 2003) that parents of children in the Montessori Early Childhood and Toddler programs want to understand the relevance of the Montessori materials and activities but struggle to understand the importance of some of the classroom activities. Dore (2014) and Vandergrift (2003) depict parents' general confusion about the Montessori method and highlight activities that, to someone who is not familiar with Montessori, seem to be mundane and even irrelevant to child development and learning. Nevertheless, despite their confusion, parents continue to register their children in Montessori schools. Even without paper evidence, they see developmental and cognitive results in their children, and therefore they continue to have confidence in what seems to be a mysterious pedagogy.

Damore, (2004a), Dunn, (2000), and Turner (2000) argue that it is time for Montessori to develop a standard of measurement. The vital first step in the development of a Montessori educational accountability system is articulation of learner outcomes. Creating this type of standard is an unprecedented opportunity for Montessori schools to be perceived as publicly accountable with the power to direct content that reflects developmentally appropriate teaching and learning (Damore, 2004b). Schools need authentic assessments in both cognitive and social/emotional development (Damore, 2004a) that are presented in a systematic and credible manner (Turner, 2000). Dunn (2000) suggests that Montessorians must be able to verbalize and document, in a language universally understood by educators, the program strengths and how it is unique.

There is some concern that rubrics or scoring guides that define learning expectations and criteria for mastery of those expectations may compromise the values of Montessori by eliminating self-direction. However, the use of a systematic scoring guide for student work "brings the look of 'standardization' to our assessments without sacrificing our principles of teaching. They help communicate clear learning outcomes and results to parents, students and others outside of Montessori" (Turner, 2000, p. 32). The Montessori materials are designed to foster a broad span of development, using all of the senses. Each material fosters several parts of development, which can be aligned to various State Standards. There is a need for a standardized measurement that clearly articulates children's developmental skills and knowledge, based on the States' Standards, and aligned with the Montessori materials and activities.

In an attempt to offer both parents and teachers an assessment tool that aligns the Montessori materials and activities to developmental standards, we developed a progress report for the *Practical Life* and *Sensorial* subject areas of the Early Childhood and Toddler Montessori classrooms. We chose to concentrate on these areas in the Montessori curriculum because the developmental value of many of their activities and materials are not easily apparent to parents and non-Montessori trained individuals.

According to the American Montessori Society (AMS) Practical life activities are:

Designed to help young children in Montessori classrooms learn to take care of themselves and their environment through activities such as hand washing, dusting, and mopping. These activities help toddlers and preschool-age children learn to work independently, develop concentration, and prepare for later work with reading and math; older children participate in more advanced activities. (n.d., para.18)

AMS defines Sensorial exercises as:

Activities that develop and refine the five senses—seeing, hearing, touching, tasting, and smelling and build a foundation for speech, writing, and math through the use of sensorial materials. The exercises also bring order to the barrage of sensorial impressions the child experiences from birth onward. (n.d., para. 22)

The purpose of the creation and presentation of the progress reports in this action research is twofold:

- to educate the parents on the developmental aim behind each Practical Life and Sensorial work in a Montessori classroom and the state developmental standards that are met through the work, as well as the skill progression toward independence or mastery;
- to offer Montessori teachers a tool to use to track the progress of all students clearly and consistently.

The present study took place in two separate Montessori schools and encompassed, in total, four Early Childhood classrooms and two Toddler classrooms. The feedback forms were presented to all families involved in these classrooms as well as to all certified American Montessori Society teachers. The intent of this action research study is to offer the Early Childhood and Toddler Montessori community a progress report that clearly connects the Montessori materials and activities with child development based on state standards in order to provide parental education and teacher evaluation consistency.

#### **Review of Literature**

In reviewing the literature, the need for quality assessments, both formative and summative, is not solely a Montessori community need. As the topic of universal preschool and increased funding for preschool, in general, has entered our society so has the need for accountability measures. Any measure of assessment should be "built on a foundation of age-appropriate standards, child development research, and developmentally appropriate content and methods" (Riley-Ayers, 2014, pg. 11). A highquality assessment analyzes many different domains within the early childhood classroom. According to Riley-Ayers (2014), the five domains most often assessed are:

1) physical well-being and motor development

2) social and emotional development

3) approaches to learning

4) language and literacy

5) cognitive skills, including early mathematics and early science knowledge. These five domains are agreed upon throughout the literature (National Research Council, 2008). They provide a set of general developmental expectations for what Toddler and Early Childhood students should know and be able to do, at the various ages of development from 18 months – Kindergarten. Having a concrete framework of standards for early learning and development, promotes continuity for children across early opportunities, and promotes consistency in selecting and measuring the child outcomes (Washington State Office of Superintendent of Public Instruction, 2008). Creating an in-depth aligned progress report for the Montessori classroom will increase the teachers' awareness of the need to observe skill acquisition along the developmental continuum and thus assess and evaluate according to the five domains used in mainstream education.

The literature confirms that early learning guidelines have been created for 56 states and territories in the United States (U.S. Department of Health and Human Services, 2014) the purpose of which is to provide teachers with support to address

children's personal and social development (Logue, 2007) as well academic progress. The standards will help to "galvanize internal improvements with early care and education institutions" (Feldman, 2010, p. 233). Nevertheless, some of the most skilled and experienced early childhood professionals have had limited opportunities for professional development and training in selecting and using assessments and analyzing data about children's progress (National Research Council, 2008).

Researchers agree that practitioners should understand why they are measuring a child's performance before choosing an assessment instrument. A discrepancy often exists between the purpose of the assessment tool and how it is used (Losardo and Notari-Syverson, 2001). "When assessment is for ...accountability or to influence the curriculum, the assessment tool should be aligned with the curriculum as set forth in standards documents representing intended goals of instruction." (Meisels, S. J., DiPrima-Bickel, D., Nicholson, J., Xue, Y., Atkins-Burnett, S., 2001). In Montessori classrooms, the "Three Period Lesson" is used to assess a child's knowledge. However, often the teacher measures the child's ability to do the activity rather than the developmental skill that the activity fosters. A progress report that aligns the materials with the developmental skills would help to steer the focus onto the child's developmental skill rather than mastery of the activity (Turner, 2000).

Curriculum-based assessment (CBA) and curriculum-based measurement (CBM) are commonly used authentic assessments. CBM can provide data to identify at-risk children, intervention effectiveness and a method of accountability, but it is too general and does not identify specific skills a child needs to develop in order to make progress. CBA, on the other hand, can provide a continuous formative assessment of specific skills needed to reach a desired outcome. Downs and Strand (2006) found that a combination of CBM and CBA is an effective assessment technique. If curriculum-based or curriculum-embedded assessment tools are to be used to measure progress toward certain standards, the instrument must assess behaviors linked to those standards (Grisham-Brown, Hallam and Brookshire, 2006, p. 46). Through the practice of observation Montessori teachers record the behaviors, but do not always link them to the standards.

There are many types of curriculum-based assessment tools that are already aligned with developmental standards. The Work Sampling System (WSS), High/Scope Child Observation Record, Creative Curriculum are used often and can support the teacher's efforts (Grisham-Brown, Hallam and Brookshire, 2006). The literature shows that aligned curriculum-based assessment helps educate parents on reasonable goals for their children and allows them to see the connection between preschool and K-12 classrooms (Logue, 2007, p. 43). Since CBA allows for the aligning of developmental standards to activities and is easier for parents to understand and assess their children's goals, it may be an appropriate type of assessment to be created and used in the Montessori Early Childhood and Toddler environments.

A Montessori authentic assessment of academic, cognitive and social/emotional development (Damore, 2004a) that correlates to a set of standards in a systematic and credible manner will serve as a first step to the Montessori community becoming publicly accountable. In order to help take this next step, we researched the effectiveness of creating a standard progress report for the Early Childhood and Toddler environments that:

- 1) Aligns child developmental benchmarks with the Montessori materials and activities
- 2) Increases parent understanding of their child's activities in the Montessori classroom and how they foster developmental skills.

#### Methodology

The first part of this project was to gain a perspective on the parents' view and understanding of the progress report used at their respective schools. In order to gather this information, currently enrolled parents were emailed an anonymous inquiry form with the current progress report attached or embedded (see Appendices A-C). The objective was to find out what parents found beneficial about the reports, what was confusing or lacking and what they would like to gain from a progress report. The parents were also asked if they understood the link between child development and the Montessori materials and if they would, or do, find it useful for the report to connect the two. The goal was to use this information to create a better way to record and report on a child's growth and progress.

A template of a trial progress report was created for each level. The initial intent was to educate the parents of the alignment of the Montessori materials to the State Child Development standards (State of NJ DOE, 2013; PA Dept. of Education, 2009), with a second objective of offering the teachers a consistent evaluation tool through the recording of a child's progress along a continuum towards skill acquisition, connected to activities and materials being used. The Scope and Sequence of the Montessori method created by Montessori Compass (Montessori Compass, 2014) and the developmental aims listed in the researchers' Montessori training albums (Conway, 1994; Fink, 2004) were used to align the Montessori materials to State Child Development standards. With that information, a rubric was created for works in the Sensorial and Practical Life areas of both the Toddler and Early Childhood Montessori classrooms (see Appendices D and E).

After the progress reports had been created, the teachers were presented with the consent form to participate in the survey as well as a prototype of the newly established progress report. Twelve certified AMS teachers, with experience ranging from two years to 30 years, were asked to use the report. In the Early Childhood classroom, the children range in age from three years through the kindergarten year and stay with the same teacher for all three years. The Early Childhood teachers were asked to complete a total of three reports; one with a child in the first- year, one in the second-year, and one in the third-year of the program. The children in the Toddler classroom range in age from 18 months – three years old. These students typically stay with the same teacher for two years. The Toddler teachers were asked to complete two reports; one representative of a first- year toddler and the other of a second-year toddler.

Six Early Childhood teachers, five from a suburban Montessori school in New Jersey and one from a Pennsylvania suburban Montessori school completed a total of 30 Early Childhood Reports. Five Toddler teachers from four different suburban Montessori schools; two in New Jersey and two in Pennsylvania completed a total of ten reports.

Once the trial reports were completed, the teachers were given an online anonymous feedback form to complete (see Appendix F). This form asked teachers to rate the usefulness of the trial report compared to the current report used at their respective school. They were also asked to report on the length of time it took to complete the form and the benefits and detriments of the format.

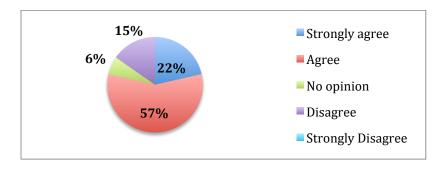
The teachers were then asked to participate in an informal discussion session after the surveys were completed to voice any other concerns, comments or questions about the report. This session was recorded and used to as data to assess the effectiveness of the trial report.

The parents were emailed a copy of the trial report and were sent a second inquiry form (see Appendix G). This time the purpose was to assess parents' opinions of the trial report's ability to convey information about the Montessori method and its link to child development. After the research was complete, the researchers presented their finding to the teachers and administrators at their respective schools.

#### **Analysis of Data**

#### **Early Childhood Results**

The first data analyzed for Early Childhood was from the surveys about the report that is currently being used at the school. Parents were asked to state what parts of the progress report they viewed as beneficial and helpful, as well as how strongly they felt it explained the link between child development and the Montessori materials (see Figure 1).



*Figure 1.* Percentage of Early Childhood parents and their level of agreement that the current progress report helps them to understand the alignment between the Montessori materials and child development.

Seventy-nine percent of the parents conveyed that the current Early Childhood progress report was helpful in understanding their child's strengths and weakness for the academic and social skills listed. "It allows me to see [the development of] my child's strengths and weaknesses, including motor development, ability to work independently, [and] areas of interests, as well as social development" was a comment written by one respondent. Seventy-nine percent of parents also stated that they found the current report to be helpful in understanding the link between the Montessori materials and child development. One-third found the amount of detail appropriate and helpful.

When asked what could be changed to make the progress report better, 20% of parents reported they wanted to see a report that aligned their child's progress to their peers or to the state standards for the child's age. In an open-ended response area, twenty percent also wanted to have the progress report handed out at least twice a year. Parents stated multiple reporting periods would enable them to see their child's progression throughout the year. Almost 15% of parents wanted a more detailed rating or grading system that could help them understand the development of their child.

Interestingly, as it relates to the purpose of this study, nearly 25% of parents wanted to understand more fully the Montessori curriculum and how academic and social skills are gained using the materials. One parent wrote, "evaluation [should be] aligned to more specific skills - ex. fine motor, gross motor, sensory and linking these to the classroom work that develops these skills.... ex. rolling up a rug develops what skills, bead work & pouring develops what skills..., etc."

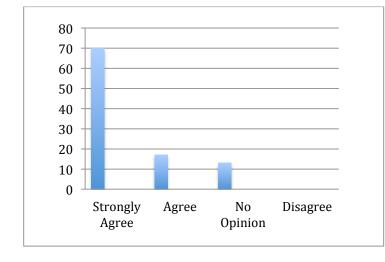
On the second survey, parents were asked to view a report template that linked state standards on child development skills to the Montessori materials used. One hundred percent of the respondents agreed with three points:

- This report was better than the original format in explaining the link between Montessori materials/activities and developmental benchmarks.
- 2. They felt more knowledgeable about the link between the Montessori materials/activities.
- They more fully understood and placed greater value on the work accomplished in the Practical Life and Sensorial areas of the Early Childhood Montessori classroom.

One parent stated:

Before seeing this new type of Progress Report, I was happy with our current reports. I felt I had a good understanding of the insight and reasoning behind the classroom activities, but this report gave a very clear picture into a child's world and progress in the classroom. I also think this would be a great tool to include in promoting the Montessori philosophy to increase enrollment. I would put this on the website and [Facebook] page to provide insight into the Montessori method not only to current families but potential new families and students.

This parent had written during the first survey, "We chose a Montessori school because of the approach to learning so we may have a better understanding and not need as much information than those who chose [school name removed], in particular, for reasons other than the educational approach." By implementing the goals of the materials as well as connecting the State Standards with the Montessori materials, the new progress report



apparently offered a new level of developmental information for this parent.

*Figure 2.* Percentage of parents that believe the new progress report increases the value they place on work in the Montessori Early Childhood environment.

On the other side of the argument, when asked what was confusing about the new report, an Early Childhood parent stated: (see Appendix E).

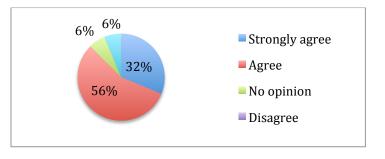
Interesting that you are suggesting that the report may be confusing. I found it less confusing, more overwhelming. This report is a truly fabulous piece of work. Detailed and thoughtful. However with a heavy heart I have to say I don't believe it will be widely read nor fully appreciated. Parents really just want the specifics relating to their child. Some context is great but mostly "how's my kid doing". I can see such a report having greater benefit when potential performance issues have been identified. It might also be helpful to provide this input at back to school night referencing so that they will see this again at report time. But by and large I think the richness of this form will go largely unappreciated. Sorry to be such a voice of negativity.

With this viewpoint likely to be heard again, it may be advisable to make certain that the information is accessible to parents throughout the year. As suggested by the parents, the information could be listed on the website for reference during the school year and a version tailored to the child's level could be given to the parents at conference time. This approach may need to be adjusted depending on the feedback of the parents from the individual schools.

#### **Toddler Results**

The data from the parents who responded to the Toddler survey was collected and analyzed in three parts: parental surveys, teacher surveys, and teacher informal discussions. The first section analyzed was the parents' perspective of the current progress report. The Toddler parents were asked about their general understanding of the alignment of Montessori materials to child development, and 81% said that they believe that they understood the alignment between the Montessori Materials and child development standards.

When asked if they felt that the current Toddler progress report helps them to understand the alignment between the Montessori materials and child development standards, 88% answered of respondents agreed that it did (see Figure 2).



*Figure 3.* Percentage who said the current progress report fosters an understanding between child development and Montessori materials

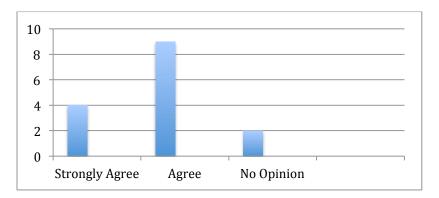
Despite the fact that 81% of the respondents believed that they understood the link between child development and the Montessori materials, 94% of the respondents said that they would find it helpful for the report to directly align the Montessori materials and activities to child development standards. When asked what was most helpful about the current Toddler Progress Report, more than three-quarters answered that the most helpful part of the Toddler Report was that it allowed them to track their child's development easily.

When the parents were asked what they felt could be changed to improve the current Toddler progress report, 44% stated that they would not change the report. A quarter of the respondents said that they would like the report to reflect better how they could support their child's development at home. Nineteen percent of the respondents took this opportunity to reiterate, in an optional comment box, that they would like to see the classroom activities aligned to child development in the Toddler Report.

A second survey was sent out to the same group of parents. This time it was sent out with the newly developed prototype Toddler Progress Report that directly aligned two of the five areas in the Toddler Montessori classroom (Practical Life and Sensorial) to the State Child Development Standards. The parents were now asked for their perspective on the new report. When the parents were asked if this progress report clearly explained the link between the Montessori Materials and activities and State Child Development Standards, 100% of the respondents said that it did (70% strongly agreed, and 30% agreed it did).

Of that group, 90% of respondents said that this report helped them understand better how the Montessori materials foster child development standards. The same group said that the report helped them to more fully understand the purpose of the Practical Life and Sensorial Montessori Materials and that they now placed a greater value on the work accomplished in the Montessori environment than previously. Seventy percent of the respondents said that they felt the new report was a better format than the report that they had previously evaluated, 20% had no opinion and 10% disagreed that the new format was better. The 20% who responded that they have no opinion of the new report format, had also responded that they better understood the purpose of the materials and they placed more value on the materials because of their new understanding of the alignment. This brings into question, why if parents better understood the purpose of the materials and placed a higher values on the activities in classroom, 30% of respondents either had no opinion or disagreed that the prototype report was a better tool than the current one. One speculation may be taken from an optional comment made by a parent who did prefer the prototype report to the original one. The respondent said:

I wish I had the previous format in front of me. I feel like there may be some behaviors and other developmental benchmarks lost on the new sheet. However burdensome it may be for the teacher, I, as a parent, desire comprehensive reporting on my child's development.



*Figure 4.* Percentage of Toddler parents that place greater value on the work accomplished within the Montessori environment after using the new alignment tool

Given this statement as well as the two other respondents who stated that they had no opinion as to which format was better, perhaps the researcher should have made it clearer that this new report was a partial report, as it encompassed only two sections of the classroom environment (Practical Life and Sensorial) and an actual report would include all of the areas of the classroom as well as social/emotional development.

### **Teacher Results**

The teacher responses about the report were as positive as the parents. Data collected from the teacher feedback forms and the informal discussion sessions showed that 100% of teachers, ranging in experience from two to 30 years, said that they believed that the progress report would help parents better understand the purpose of the Montessori materials and activities. One hundred percent of the teachers also agreed that they would use the progress report during conference time either as a guide for them or to share with parents.

In this project, the less experienced teachers expressed an appreciation of the clear alignment and wording as well as the well-defined levels of progression. These guidelines for observation and terminology may be of value for less experienced teachers. One teacher stated in the open-ended response section of the survey:

I think, especially for new teachers and teachers in training, the report describing the different evaluation criteria for Practical life is very beneficial. I sometimes think new teachers and even seasoned teachers miss the importance of this area and how much it creates the foundation for all future learning in the classroom.

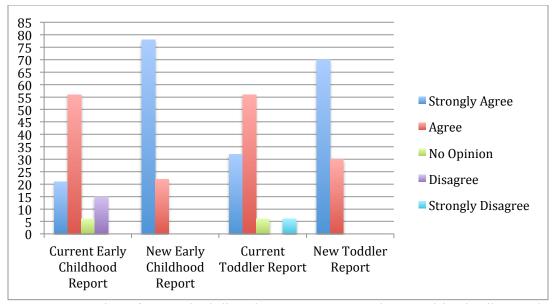
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Seeing it may help them stop and rethink how quickly they push children towards 'paper and pencil' activities.

### Discussion

It is interesting to note that approximately 75% of parents from both groups, to varying degrees, thought that the original format explained the developmental purposes of the Montessori activities/materials. However, when presented with this information in a different format, 100% of parents agreed that the new format did, in fact, help them to fully value and understand the Montessori method. This percentage correlates with the teachers' speculation that the new report would help parents better understand the purpose of the Montessori materials and activities.

On analysis of the data, the comments written by parents suggest that while parents may be confident in their basic knowledge of their child's schooling, their understanding of the depth of the Montessori method is limited. Their responses suggest that the aim of educating parents in a more comprehensive manner about the purpose of the Montessori materials and activities and how they foster child development, by implementing a more detailed progress report, has been met. In order for parents to fully appreciate the significance of the early childhood years as well as to appreciate their investment in their child's education, it is imperative that they understand, at a comprehensive level, how the Montessori materials foster child development.



*Figure 4*. Comparison of parents that believe the new progress report better explains the alignment between State Developmental Standards and the Montessori Practical Life and Sensorial materials than the previous template used.

## **Action Plan**

The goal of this Action Research was to bridge the gap between the Montessori materials and State Developmental Standards for both parents and teachers. Eighty-three percent of all respondents believed that they understood the link between the Montessori materials and child development before implementation of the new report. The results of the survey on the new report show that 97% said that they better understood the link, and 83% placed a greater value on the Montessori materials due to their increased understanding of the link. One parent responded, "I was completely satisfied with the previous format, but this new format is fantastic. It makes it real and tangible to understand how to help my child". This comment as well as the one stated earlier in Early Childhood results confirmed the hypothesis that there was an erroneous understanding of the purpose of the Montessori materials on the part of parents. Providing a clear alignment of the State Standards to the Montessori Practical Life and Sensorial materials proved to be enlightening. As shown in the literature review, traditionally, Montessori progress reports encompass the recording of a child's progress based on observations. As Turner (2000) explains:

This may take the form of anecdotal reporting or a checklist stating whether a child has been introduced to a material, working on a material, or has mastered it, without stating what the learning objective of that material is or where the child is on the developmental continuum of that skill acquisition.

These types of progress reports can be cumbersome to complete, are inconsistent and do not give parents a clear understanding of the child's developmental progress. Information on the purpose of the activities and materials in the Montessori classroom that corresponds to developmental skill acquisition should resolve parents' misunderstandings and misconceptions. Turner (2000) believed that this could be achieved with the implementation of an aligned record-keeping system based on authentic measure of assessment. This project has begun a path in achieving a formative authentic type of assessment.

It is the objective of the researchers that this progress report format will:

- Offer both parents and teachers a clear alignment of the developmental value of the Montessori materials and the language to explain both.
- Offer a consistent tool for reporting growth for the Montessori community that offers a systematic and credible manner to measure student's progress.
   Moreover, the larger goal is to bring consistent and transparent accountability to Montessori education in the hope that the Montessori method will receive the respect it deserves within the education field.

- 3. Offer teachers guidelines as to developmental benchmarks addressed with the Montessori activities and materials, thus improving their ability to assess a child's progress and meet their student's educational needs. This can improve their practice and their ability to communicate with parents.
- 4. Organize the progression of the Montessori activities and materials in a way that parents can understand the incremental growth their child exhibits. According to the Children's Aid Society (2003) and Edutopia (2000), parental involvement is widely believed to be critical to children's early academic development (Arnold et al. 2008 p.75) therefore the ability for parents to understand their children's development is significant.

Furthermore, this project will allow teachers and parents to use the same language created in the report to discuss how the children are performing in class currently and how they will continue to grow. Ultimately, it will help teachers to communicate better with parents about the Montessori philosophy and method.

In future research, this report should be expanded to include all of the areas of the classroom. Parents and teachers in the current study wanted to know what the report would look like, particularly in the language and math areas. Further research could include whether parents place greater value on the geography, science and cultural areas of the classroom using this template, since the developmental and educational outcome of these areas may be less ambiguous. The researchers want to expand the sample size and population to include more parents and teachers as well as to diversify their demographics. The study could be expanded to collect information on how Montessori parents around the country view the reporting systems at their schools. Then, when given

a tool such as the ones created for this project, researchers could gather feedback on whether parents are of the opinion that a more detailed report would be helpful and informative.

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## Appendix A: Current Early Childhood Progress Report

Math

K

SKILL LEVEL: S = Seldom, U = Usually, A = Almost Always

#### SOCIAL AND EMOTIONAL DEVELOPMENT

Grace and Courtesy/Personal Development	
Shares and works well with others	A
Shows respect for the rights and property of others	A
Shows compassion	A
Utilizes conflict resolution skills	A
Interrupts appropriately	A
Communicates needs to others positively	Α
Interacts appropriately with adults	Α
Shows respect for the classroom	A
Follows the rules of the classroom	A
Responsible for his/her belongings	A
Manages frustration	A
Demonstrates self-control	A

#### Work Habits/Learning Style

Chooses a variety of work from all areas of the classroom		A
Chooses work easily		Α
Chooses work appropriate to ability		Α
Organizes work space and materials		Α
Uses materials properly		Α
Concentrates for appropriate periods of time	1	Α
Able to work independently	1	A
Shows initiative and self-motivation	1	Α
Works well with others		Α
Shows interest in group presentations		Α
Has interest in trying new work		Α
Spends time observing others in an appropriate manner		Α
Is attentive and responsive to adult instruction		A
Asks for help when necessary		Α

SKILL LEVEL: I = Introduced, P = Progressing, WD = Well Developed, N/A = Not Yet Applicable

#### CURRICULUM

Practical Life	
Exhibits control of tools requiring fine motor skills	P
Exhibits focus on activity	WD
Follows complete sequence of an activity	P
Cares for him/her self	WD
Cares for the classroom environment	WD

Sensorial	
Can order objects by size	WD
Can match objects	WD
Knows 10 colors by name	WD
Identifies familiar objects by touch	WD
Can place geometric shapes in proper inset	WD
Identifies simple geometric shapes	WD
Identifies advanced geometric shapes	P
Art	
Uses different art media with interest	WD
Holds scissors correctly and cuts	P
Creates work to his/her own satisfaction	WD

SKILL LEVEL: S = Seldom, U = Usually, A = Almost Always

#### SPECIALS

Movement	]
Participates in games and activities	A
Can perform age appropriate gross motor skills	A
Music	]
Sings with enthusiasm	
Shows appreciation for songs and instruments	A
Spanish	
Participates in lessons and activities	U
Retains vocabulary	U

#### COMMENTS

COMMENTS J. is a curious, independent, and kind young lady. She loves to learn! J. has enjoyed many new lessons this year, in particular the maps and the geometric solids. She has begun word building and is quickly moving through the California Series. In math, she has begun counting and recording the short chains. She has made many new friends with whom she often likes to work and play. J. seeks out new lessons when she is interested in the subject. She is working on her fine motor control of tools, such as a pencil or scissors, though with time and practice this continues to improve. J. has been a joy to teach and she will be missed.

Communication and Language Skills	
Listens attentively in a group	
Has vocabulary adequate for his/her needs	
Speaks clearly and confidently	
Expresses his/her ideas effectively	
Can phrase questions clearly	
Can auditorally discriminate between initial sounds	
Recognizes consonant sounds and symbols	
Recognizes vowel sounds and symbols	
Decodes phonetic words with short vowels	
Knows phonograms	
Reads simple phrases	
Works with story-writing activities	
Holds pencil correctly	
Can write letters with a model	
Can write letters without a model	
Can write his/her own name	
Can properly place pencil on line/page	
Left to right letter placement	

Demonstrates knowledge of quantities 1-10 Demonstrates knowledge of symbols 1-10 Associates quantity and symbol 1-10

Recognizes the value of zero Recognizes teen numbers Demonstrates knowledge of numbers to 100 Understands decade transitions

Uses decimal system materials (golden beads) Understands place value Uses the exchange materials (10 units=1 ten bar, e.g.) Uses skip counting materials (bead chains) Writes numbers with model Writes numbers without model Performs addition with concrete materials

Performs multiplication with concrete materials Performs subtraction with concrete materials

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NA	
NA	
Р	
NA	
NA	
NA	

Cultural (Geog, Science, Zoo, Botany, Bio, History)	
Can identify land/water/air	WD
Can manipulate puzzle maps	WD
Can identify continents	Р
Makes his/her own maps	P
Distinguishes living/non-living	WD
Distinguishes plant/animal	WD

NA	
NA	
WD	
WD	
Р	
Р	

# Appendix B: Current Toddler Progress Report

School Year:			Toddler Developmental Form 18-36 months
Child's Name:			Teacher:
Birth Date:			Schedule:
Skill Level Key		7	Days Absent/Tardy
Well Developed	W	1	Fall /
Developing	D	1	Spring /
Beginning to Develop	В	1	
Improvement Needed	I	1	
Not Applicable	N/A	1	
		-	
Social/Emotional Development	Fall	Spring	Approaches to Learning/Learning Style Fall Spring
Uses " I"," "Mine", "Me", "You""			Makes independent choices
Shows empathy			Explores the classroom using all senses
Plays in Parallel			Shows persistence
Beginning to enjoy playing with other children			<sup>1</sup> Developing concentration skills

Shows empathy	
Plays in Parallel	
Beginning to enjoy playing with other children	
Growing in confidence and indepedence	
Understands "mine" "yours"	
Seeks assistance when needed	
Beginning to help others	
Cooperates in small & large group activities	
Makes eye contact when communicating	

Independent / coordination Skills	Fall	Spring
Undresses self: removes clothing, shoes, etc.		
Dresses self: pants, jacket, shirt, pajamas		
Puts on own shoes and socks		
Walks steadily without bumping into objects		
Alternates feet going up and downstairs		
Jumps in place		
Throws and catches a ball		
Pedals a tricycle		

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Sensorial Development	Fall	Spring
Visually matches objects & pictures		
Recognizes and matches colors		
Developing an awareness of seriation by size		
Sorts objects by one attribute		
Recognizes basic shapes		
Names circle, triangle, square		
Recognizes textures		
Notices colors & shapes in the world around them		

Eats with utensils			1	Identifies loud/soft, big/little, heavy/light		
Drinks from a cup without a lid			1	Names red, blue, yellow, purple, green, orange		
Uses toilet indepedently			1			
Uses a tripod grasp			1	Manipulative & Math	Fall	Spring
· · · ·	•		-	Counts objects to 3		
				Counts objects to 7		
Language	Fall	Spring	1	Counts objects to 10		
Developing vocabulary to express needs			1	Associates quantity with symbol 1-3		
Comprehends simple directions (touch your toes)			1	Recognizes numbers 1-2		
Responds to questions			1	Recognizes numbers 1-5		
Speaks in 3-5 word sentences			1	Understands the concept more and less		
Speech is understandable but has errors			1	Able to string beads		
Understands up, down, behind, under			1	Performs posting activities		
Names parts of body			1	Performs nesting activities		
Names common animals			1	Dexterity in using a latch board		
Uses "Hello", "Please", "Thank you", "Goodbye"			1	Developing eye/hand coordination		
Uses plurals			1	Completes a 5 piece interlocking puzzle		
Follows multi step directions			1 <sub>1</sub>	Draws horizontal & vertical lines		
Names pictures			1	Draws a circle		
Knows first and last name			1	Holds scissors		
Knows gender			1	Able to use glue to create a collage		
Knows age						
Can identify own written name				Special Area Classes	Fall	Spring
Sequences 2-3 pictures				Participates in weekly Music Class		
Enjoys being read to				Participates in weekly Art Class		
Has favorite stories						
Fall Strengths & Goals				Spring Strengths & Goals		

## Appendix C: Parent Survey on Current Progress Reports

Completion of this survey is voluntary. By completing this survey, you are giving your consent to participate in this study. Completing this survey is completely voluntary and you may quit at any time. Completion of these questions is confidential and no identifiable information is collected. \*Required.

I would like my responses to be included in the study. \*

- Yes, I would like my responses to be included in the study.
- No, I would prefer that my responses were not included in the study.

If you would like to include your responses in the study, please enter the first three letters of your mother's maiden name plus the date of the month of your birth. For example, RHO24

For anonymous tracking purposes only

1. The current progress report at your child's school helps you to understand the alignment between the Montessori materials and child development.

- Strongly agree
- Agree
- No opinion
- Disagree
- Strongly disagree

2. In what ways do you find the progress report at your child's school helpful, please explain. \*

3. In what ways could the current progress report be changed to make it more helpful? \*

4. Do you understand the alignment between your child doing activities, such as table washing, in a Montessori classroom and child development?

- Yes
- No

5. Would/Do you find it helpful for the progress report to align activities, such as table washing & other Montessori activities, to child development?

- Yes
- No

6. What else, if anything, would you like the researcher to know about this project?

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State Standards: 2.1: Children develop self-help and personal hygiene skils 2.2: Children begin to develop the knowledge and skills necessary to make nutritious food choices <i>0.5</i> : Children exhibit pro-social behaviors	Purpose: Food preparation is a real world skill practiced within the classroom. Can be done to prepare a snack for oneself or to share with others.	24: Children develop competence and confidence in activities that require fine motor skills Practical Life: Food Preparation	Practical Life: Transfer Purpose: Transferring is a fundamental activity for a Montessori classroom. Child learns fine motor skills, concentration, coordination, and directionality (moving from left to right and vice versa). State Standards:	Process of independently choosing work from many options, completing the work with purpose, and returning the work to it's original location in its original condition. <b>State Standards:</b> <i>0.2:</i> Children demonstrate self-direction <i>9.1:</i> Children show initiative, engagement and persistence	Student name     Jane Doe       Age     4.1       Year     Second       Teacher name     Ms. Fink       Practical Life: Work Cycle       Purpose:
ards: nd personal hygiene he knowledge and skills choices shaviors		e and confidence in kills Preparation			
	Materials/Activities Varies throughout the year: cream cheese spreading, apple slicing,		Materials/Activities: Grasping, Spoonling, Tonging, Dry pouring, Wet pouring	An motives and materials.	materials/Activities
teacher assistance and teacher assistance. encouragement. Requires Requires reminders to supervision to wash hands, gather all hands, gather all necessary materials, and to clean up when finished finished. May be able to and assistance to offer food to others.	Beginning Participates in snack and available food preparation work with	it up entirely. Correct grasp may be developing. Focuses on task until completion with teacher assistance.	Beginning Beginning to transfer material to and from some containers with some implements. Spilling occurs and needs teacher direction to clean	work from shelf, with frequent remine completes tasks only with and teacher direction teacher direction. Does May recognize and not yet recognize work on choose work on their their level. Will need level. Might rememb teacher direction to return work to shelf. for another student's	Beginning
teacher assistance. Requires reminders to wash hands, gather all necessary materials, and to clean up when finished. May be able to offer food to classmates.	Progressing Participates in snack and available food preparation work with	entirely, Corred grasp developing. Focuses on task until completion.	Progressing Can transfer material to and from some containers with some implements. Spilling occurs and needs teacher direction to clean it up	with frequent reminders with minimal reminders and teacher direction. completes tasks with May recognize and minimal teacher direction. Can frequent level. Might remember to find work on their level. Might remember to find work on their level fready Returns work to shelf fready Returns work to shelf student.	Progressing
minimal assistance. May require reminders to wash hands, gather all necessary materials, and/or to clean up when finished. Should be able to offer food to classmates.	Advancing Participates in snack and available food preparation work with	grasp. Focuses on task until completion. Minimal assistance needed.	Advancing May be able to transfer material to and from different containers with any implement. Minimal apylis can be cleaned up entriely. Uses correct	uchnoses work norm snerr with minimal reminders, completes tasks with minimal teacher direction. Can frequently find work on their level. Returns work to shelf ready for another student.	Term starts Term ends Tardy Absent Advancing
Independently washes hands, gathers all necessary materials, and cleans up when finished. Offers food to classmates confidently using proper language.	Independent Participates in snack and available food preparation work.	Uses correct grasp. Focuses on task until completion. Independent of teacher assistance.	Independent Able to transfer material to and from many different containers with any implement without spilling or if spill occurs can clean it up entirely.	chooses work noon snear and completes tasks indrependently. Needs infrequent teacher direction to choose and complete work on appropriate level. Returns work to shelf ready for another to use.	Independent
social skills by offering prepared food to classmates.	Leads to: Independence to satisify hunger by preparing a needed snack. Build		Leads to: Development of hand-eye coordination, wrist rotation, and pincer grasp spring- which are all pre-writing skills.	concentration, coordination, order and independence. Learn how to manage a world full of choices independently.	Spring 2016 4 3 3
Notes:	Fall: Spring:		e Level Fall: P Spring: Notes:	Fall:	Level

# Appendix D: Newly Created Early Childhood Progress Report

		-	-	-	-		
Notes:	with full range of	intervention; typically manages emotions with with full range of	intervention; typically		recognizes emotions, may use calming		State Standards:
Juniy.		independently; typically child to positively deal		conflict or express needs; recognizes emotions, minimal teacher	conflict or express needs;		discussion. Part of many Grace and Courtesy lessons.
Corino.		modeled words to solve conflict or express needs; to child's satisfaction with to child's satisfaction variety of settings. Allows	to child's satisfaction with	conflict or express needs;	modeled words to solve		others. Done through role modeling, practice and
Fall:	resolution of conflict in a	child uses words to solve conflict or express needs conflict or express needs resolution of conflict in a Fall:	conflict or express needs	child uses words to solve	child repeats teacher		communicate own emotions and to understand those of
Level	Leads to peaceful	With teacher guidance, Child uses words to solve Child uses words to solve Leads to peaceful	Child uses words to solve	With teacher guidance,	With teacher guidance,	Peace rose or other object With teacher guidance,	Child uses effective listening and speaking skills to
	Leads to:	Independent	Advancing	Progressing	Beginning	Materials/Activities	Purpose:
							Practical Life: Peace Education/ Grace and Courtesy
		clothing independently.	minimal assistance	clothing	on clothing.		skills
		Manages clasps on	clasps on clothing with	and close various clasps manage various clasps on clasps on clothing with	and close various clasps		2.1: Children develop self-help and personal hygiene
Notes:		and as necessary.		assistance, learn to open reminders and begin to reminders. Manages	assistance, learn to open		State Standards:
Junity.		weather independently	weather with minimal	weather with teacher	weather with teacher		appropriately according to weather/situation.
Carina	self, caring for hygiene	clothing appropriate to	clothing appropriate to	clothing appropriate to	clothing appropriate to		water. Child learns how to care for self by dressing
Fall:	dressing and undressing Fall:	blow nose, put on	blow nose, put on	blow nose, put on	blow nose, put on	own clothing	blow nose using a tissue and wash hands with soap and own clothing
LEVEI	Independent care of self:	Child will wash hands,	Child will wash hands,	Child will wash hands,		Dressing frames, child's Child will wash hands,	Child learns how to be respectful of others by learning to
	Leads to:	Independent	Advancing	Progressing	Beginning	Materials/Activities	Purpose:
						_	Practical Life: Care of Self

des	Children well on a tanget or nainted line on the floor	Purpose:	Practical Life: Walking on the line	9.3: Children identify and solve problems	children and adults	0.4: Children exhibit positive interactions with other	0.3: Children identify and express feelings	0.1: Children demonstrate self-confidence	State Standards:	discussion. Part of many Grace and Courtesy lessons.	others. Done through role modeling, practice and	communicate own emotions and to understand those of	Child uses effective listening and speaking skills to	Purpose:	Practical Life: Peace Education/ Grace and Courtesy	skills	2.1: Children develop self-help and personal hygiene	State Standards:
bells or water and must	May carry object such as Child works to remain on Child works to remain on Child works to remain on Child can move gracefully Aids in establishing control	Materials/Activities											Peace rose or other object With teacher guidance, With teacher guidance, Child uses words to solve Child uses words to solve Leads to peaceful	Materials/Activities				
the line. Frequent loss of	Child works to remain on	Beginning					techniques	may use calming	recognizes emotions,	conflict or express needs; recognizes emotions,	modeled words to solve	child repeats teacher	With teacher guidance,	Beginning		on clothing.	and close various clasps	assistance, learn to open
the line. Occasional loss of	Child works to remain on	Progressing						techniques	may use calming		conflict or express needs;	child uses words to solve	With teacher guidance,	Progressing		clothing	and close various clasps manage various clasps on clasps on clothing with	assistance, learn to open reminders and begin to reminders. Manages
the line. Infrequent loss of	Child works to remain on	Advancing				-	calming techniques	manages emotions with calming techniques	intervention; typically	minimal teacher	to child's satisfaction with	conflict or express needs	Child uses words to solve	Advancing		minimal assistance	clasps on clothing with	
	Child can move gracefully	Independent							intervention; typically manages emotions with with full range of	independently; typically child to positively deal	modeled words to solve conflict or express needs; to child's satisfaction with to child's satisfaction variety of settings. Allows	conflict or express needs	Child uses words to solve	Independent		clothing independently.	Manages clasps on	and as necessary.
of body movements at will Fall:	Aids in establishing control	Leads to:					and success.	emotions with respect	with full range of			child uses words to solve conflict or express needs conflict or express needs resolution of conflict in a Fall:	Leads to peaceful	Leads to:				
Fall:										-ping-	Snrinn-	Fall:						
	PCACI.								Notes:					Level				Notes:

				-	-	-	
Purpose:	Materials/Activities	Beginning	Progressing	Advancing	Independent	Leads to:	[PVP]
Child works to remain on Child works to remain	May carry object such as	Child works to remain on	Child works to remain on	Child works to remain on	Child can move gracefully	Aids in establishing control	PCACI
Child ultimately walks heel to the with hands at her sides bells or water and must the line. Frequent loss of the line. Occasional loss of the line. Infequent loss of down the line while of body movements at will Fall:	bells or water and must	the line. Frequent loss of	the line. Occasional loss of	the line. Infrequent loss of	down the line while	of body movements at will	Fall:
or carving anobject, head energing with perfect balance, canvit without making balance. Watchesfeet to balance. May watch feet to balance. Head should be canying an object, looking with perfect equilibrium, Spring:	carrv it without making	balance. Watches feet to	balance. May watch feet to	balance. Head should be	carrying an object, looking	with perfect equilibrium,	Spring:
	noice or coilling water	maintain course. Arms may	maintain course. Arms may	/ upright. May not be able to	maintain course. Arms may maintain course. Arms may upright. May not be able to straight ahead. Stays on balance and coordination.	balance and coordination.	-
State Standards:	noise of spinning water.	be outstretched.	be outstretched.	hold object. Able to focus line while maintaining	line while maintaining		Notes:
2.4: Children develop compentence and confidence in				until completetion of task. perfect balance. Able to	perfect balance. Able to		
activities that require gross motor skills					focus until completetion of		
2.4.3: Use objects and props to develop spatial and					task.		
coordination skills							

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Report:
Early
7 Childhood Sensor
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	Details	CIID						
Student name	Jane Doe				Term starts		Fall 2015	
Age	4.1				Term ends		Spring 2016	
Year	Second				Tardy		4	
Teacher name	Ms. Smith				Absent		3	
Sensorial: Visu:	Sensorial: Visual Discrimination							
Pur	Purpose:	Materials/Activites	Beginning	Progressing	Advancing	Independent	Leads to:	
The purpose of these materi	The purpose of these materials is to develop perceptions Knobbed cylinders (4 Child can grade material Preparation	Knobbed cylinders (4	Child can grade material	Child can grade material	Child can grade material	Child can grade material	Preparation for other	Level
of differences in dimension;	of differences in dimension; develop attention in working sets), knobbless cylinders from largest to smallest from largest to smallest from largest to smallest areas of sen:	sets), knobbless cylinders	from largest to smallest	from largest to smallest	from largest to smallest	from largest to smallest	sorial	Fall:
with sequences and systema	with sequences and systematic operations; encourage (4 sets), pink tower, with teacher assistance. with teacher assistance. independently, Self- curriculum;	(4 sets), pink tower,	with teacher assistance.	with teacher assistance.	independently. Self-	independently. Self-	curriculum; preparation	
power of reasoning; set groundwork for the		broad (brown) stair, red	May not recognize errors	Should recognize errors	broad (brown) stair, red May not recognize errors Should recognize errors corrects errors in grading. for mathematics, science	corrects errors in grading.	for mathematics, science	

Sensorial: Visual Discrimination							
Purpose:	Materials/Activites	Beginning	Progressing	Advancing	Independent	Leads to:	-
The purpose of these materials is to develop perceptions Knobbed cylinders (4 Child can grade material Child can grade ma	Knobbed cylinders (4	Child can grade material	Child can grade material	Child can grade material	Child can grade material	Preparation for other	Level
of differences in dimension; develop attention in working sets), knobbless cylinders from largest to smallest areas of sensorial	sets), knobbless cylinders	from largest to smallest	from largest to smallest	from largest to smallest	from largest to smallest		Fall:
with sequences and systematic operations; encourage (4 sets), pink tower, with teacher assistance. with teacher assistance. independently. Self. independently. Self.	(4 sets), pink tower,	with teacher assistance.	with teacher assistance.	independently. Self-	independently. Self-	curriculum; preparation	
power of reasoning; set groundwork for the	broad (brown) stair, red	May not recognize errors	Should recognize errors	corrects errors in grading.	broad (brown) stair, red May not recognize errors Should recognize errors corrects errors in grading. corrects errors in grading. for mathematics, science	for mathematics, science	
understanding science of numbers; and develop complex rods		in grading. Will need	in grading. Will need	Takes out and puts away	in grading. Will need in grading. Will need Takes out and puts away Independently takes out and writing		Spring:
motor control		to take	teacher assistance to take		and puts away material		
State Standards:			matarial paramative Man		and unviotions for aire		Notes:
2.4.2 Develop and refine fine-motor skills (e.g., complete		ווומנפוומו נטוופננוץ.	Indicental confective may remained to rective may				
gradually more complex puzzles and use smaller-sized			use extension or	extensions and	lessons to other students.		
manipulatives during play)			variation.	variations.			
9.1 Children demonstrate initiative, engagement, and							
persistence.							
9.2 Children show creativity and imagination.							
Math 4.1: Children begin to demonstrate an							
understanding of number and counting.							
Math 4.3: Children begin to conceptualize measurable							
attributes of objects and how to measure them.							
Math 4.4: Children develop spatial and geometric sense.							

9.1: Children demonstrate initiative, engagement, and persistence. 9.3: Children identify and solve problems.	memoy and the tactile sense.	Purpose: The nurpose of these activities is to develop muscular	Sensorial: Stereognostic Discrimination	Sensorial: Auditory Discrimination         Purpose:         The purpose of these materials is to develop sound discrimination.         State Standards:         State Standards:         RFPK2 Demonstrate undestanding of spoken words and begin to undestand syllables and sounds (phonemes).         9.1: Children demonstrate initiative, engagement, and persistence.         5.1: Children develop inquiry skills.         5.2: Children observe and investigate matter and energy
	extensions with other materials	Materials/Activites Beginning Mystery bag, blindfold Can match previously		Materials/Activites Sound cylinders, sound/no sound
	seen items using stereognostic sense.	Beginning Can match previously		Beginning Child can identify the difference between the loudest and softest sound. May be able to locate those 2 extremes from both boxes and match them.
identity well known objects using stereognostic sense.	seen items using stereognostic sense. Can	Progressing Can match previously		Progressing Child can identify 2 extremes and middle sound and can match between red and blue boxes.
can sort items using stereognostic sense.	seen items using seen items, can identify stereognostic sense. Can well known objects and	Advancing Can match previously		Advancing Child can grade all 6 sounds from loudest to sounds as well as match sounds between two boxes.
can sort items using stereognostic sense; makes educated guesses about item using	seen items, can identify seen items, can identify well known objects and well-known objects and	Independent Can match previously		Independent         Leads to:           Child can grade and match all sounds; use auditory memory to match sounds even after a delay between hearing sounds. Able to give this sounds. Able to give this esson to another child.         sounds a skill used in match sounds phonemic sounds. Able to give this awareness. Can transfer sounds.
	fine motor activities	Leads to: Preparation for writing,		nsfer
NOTES	Fall: Spring:	Level		Level Fall: Notes:

sensorial: stereognostic discrimination							
Purpose:	Materials/Activites Beginning	Beginning	Progressing	Advancing	Independent	Leads to:	
The number of these activities is to develop muscular	Mystery bag, blindfold	Can match previously	Can match previously	Can match previously	Mystery bag, blindfold Can match previously Can match previously Can match previously Can match previously Preparation for writing	Preparation for writing,	Level
	extensions with other seen items using	seen items using	seen items using	seen items, can identify	seen items using seen items, can identify seen items, can identify fine motor activities		Fall:
	materials	stereognostic sense.	stereognostic sense. Can	stereognostic sense. Can well known objects and well-known objects and	well-known objects and		Spring:
State Standards:			identify well known can sort items using	can sort items using	can sort items using		Notes:
9.1: Children demonstrate initiative, engagement, and			objects using	stereognostic sense.	stereognostic sense;		
persistence.			stereognostic sense.		makes educated guesses		
9.3: Children identify and solve problems.					about item using		
5.1: Children develop inquiry skills. 5.2: Children observe and investigate matter and energy.					stereognostic sense.		
Sensorial: Tactile Discrimination							
Durnoca	Materiale/Activitee Reginning		Drogracsing	Advancing	Advancing Indonandant Loads to:	Leads to:	

5.7: Children develop inquiry skills. 5.2: Children observe and investigate matter and energy.					stereognostic sense.		
Sensorial: Tactile Discrimination							
Purpose:	Materials/Activites	Beginning	Progressing	Advancing	Independent	Leads to:	l evel
Materials are used to develop the sense of touch as well I	Fabric boxes, baric	Child can identify and	Child can identify and Child can identify and	Child can identify and	Child can identify and	Development of skills to	LOVOI
as discrimination of temperatures and weight. Develops cylinders/tablets, rough match the 2 extremes	ylinders/tablets, rough		match extremes and one match all variances in	match all variances in	match all variances in	make scientific inquires.	Fall:
associated vocabulary.	and smooth boards.		other. May be able to use material. Child uses	material. Child uses			Spring:
State Standards:		(rold)	correct vocabulary	correct vocabulary	hild	sandnaner letters and	Notes:
L.PK5a: Begin to sort familiar objects	thermic	or match 2 fabrics by		tononi tononini ji	can give lessons to	numbers.	
<i>L.PK.5b</i> : Begin to understand opposites of simple and familiar words.	bottles/tablets	touch.					
9.1: Children demonstrate initiative, engagement, and							
persistence.							
9.3: Children identify and solve problems.							
5.1: Children develop inquiry skills.							
Sensorial: Olfactory Discrimination							
Purpose:	Materials/Activites	Beginning	Progressing	Advancing	Independent	Leads to:	Level
Children lasen how to discriminate between create how	Smelling bottles	Child can identify the	Child can identify 3	Child can match all 6	Child can match all	Development of skills to	n ce ci
to smell a material safely and develop related vocabulary		difference between 2	scents and can match	scents and match scents	scents and match scents scents; can use olfactory make scientific inquires.		Fall:
			from two boxes.	between two boxes.	memory to match scents		Spring:
State Standards:					even after a delav: able to		Notes:
5.1: Children develop inquiry skills.		both boxes and match			give this lesson to		
<ol><li>P. 1: Children demonstrate initiative, engagement, and persistence.</li></ol>		them.			another child.		
9.3: Children identify and solve problems.							

Pro d can i its and its wo b	Beginning         Progressing         Adv.           Child can identify the         Child can identify 3         Child can match           difference between 2         scents and can match         scents and ra match           scents. May be able to         from two boxes.         between two           locate those 2 scents from         between two         between two           both boxes and match         them.         between two	ing         Advancing         Independent           y3         Child can match all 6         Child can match all scents; can use offacto admittis scents; can use offacto scents; can use offacto scents; can use offacto scentaria delay; ablication additionation scentaria delay; ablication additionation scentaria delay; ablicationation scentaria delay; ablicationation scentaria delay; ablicationationation scentaria delay; ablicationationation scentaria delay; ablicationationationation scentaria delay; ablicationationation scentaria delay; ablicationationation scentaria delay; ablicationationation scentaria delay; ablicationationationation scentaria delay; ablicationationation scentaria delay; ablicationationationationation scentaria delay; ablicationationationationationationationation	ing Advancing y3 Child can match all d ach scents and match scent between two boxes.
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	Details					Term Result		
Student name Jane Doe	Doe			Term starts		Fall 2014		Date: Nov. 14, 2014
Age 35 mths	ths			Term ends		Spring 2015		Date:
Year Second	h			Tardy		Fall: 4		
Teacher name Ms. Smith	mith			Absent		Spring:		
Practical Life: Work Cycle	Cycle	Beginning	Progressing	Advancing	Independent	Leads to:	Level	Notes
Description Must be brought to fin Process of independently choosing work from work from shelf. many options, completing the work with completes tasks only purpose, and returning the work to it's original with teacher direction. In state, and returning the work to it's original with teacher direction.	ing work from ork with < to it's original	<u>م</u>	Chooses work from shelf Chooses work from shelf Chooses work from with frequent reminders with minimal reminders, and completes tasks with frequent reminders with minimal teacher ind teacher direction. Can May recognize and minimal teacher Ittle teacher direction. Can choose work on their direction. Can	Chooses work from shelf with minimal reminders, completes tasks with minimal teacher direction. Can	in.	earn	Fall Independent	Jane has made great progress this school year. She is independently choosing challenging activities and she display.
State Standard:				frequently find work on their level.		how to manage choices Spring independently.		good concentration.
AL 1.12 Demonstrates preferences & makes independent choices	es & makes							
Rolling & Unrolling a Mat	a Mat	Beginning	Progressing	Advancing	Independent	Leads to:	Level	Notes
Description		Child brings mat to floor	Child uses whole hand	Child can unroll mat and	Child brings mat to floor Child uses whole hand Child can unroll mat and Child can unroll mat and Independent skills Hand	Independent skills Hand	Fall	Jane needs help getting
Using two hands bi-later ally the child unrolls mat and smooths flat. Using two hands bi- laterally child makes small folds in mat repeatedly until it colls into a colinder	unrolls Is bi- t	and with adult assistance unrolls mat. When rolling, adult makes first few rolls	to unroll mat and needs sometimes needs help adult assistance to smoothing it out. When flatten mat. When rolling, child may need rolling adult starts first help starting the first		smooth it out. When rolling, child makes small folds to roll mat into a tight cylinder.	control Attention to detail	Advancing	started rolling the mat bu then pays careful attention to each turn an takes pride in her tightly
Chata Chata		e nat	while	few rolls but is otherwise able to roll			Spring	rolled cylinder!
State Standard: PM 10.5q Increase strength & muscle control of small muscles in the hand		into a loose cylinder.	trying to roll mat.	mat into a tight cylinder.				

Appendix E New Toddler Progress Report

Description Ufts, carries and balances traps while maneuvering around furnture and other people. State Standard CE 9.2 Demonstrate increased coordination in movements and gestures PM 10.4 aa Demonstrate muscle control and balance PM 10.4z Increases balance & muscle control	Carries a Tray with Work	Rolling & Unrolling a Mat Description Using two hands bi-laterally the child unrolls matand smoths flat. Using two hands bi- laterally drild makes small folds in mat repeatedly until it rolls into a offinder State Standard: PM 105q/ncrease strength & muscle control of small muscles in the hand
Carries tray with adult Attempts to carry trays assistance and is guided independently & to the table by an adult. maneuver through dassroom with some success.	Beginning	Beginning         Progressing           Child brings mat to floor         Child uses whole hand           and with adut         to uncli mat and need           asticance unrolls mat.         adut assistance to           When rolling adut         fatten mat. When           make sifts thew rolls         rolling adut starts first           then child uses whole         few rolls and child           hand to "push" the mat         makes large folds while           into a loose cylinder.         trying to roll mat.
Attempts to carry trays independently & maneuver through classroom with some success.	Progressing	
Can usually lift and balance trags while maneuvering around furniture & others with ease.	Advancing	Advancing Independent Child can unroll mat and Child can unroll mat sometimes needs help smooth it out. Whe smoothing it out. When rolling, child makes rolling, child may need small folds to rol m help starting the first into a tight cylinder few rolls but is otherwise able to roll mat into a tight cylinder.
Can lift, carry and Balance, balance tray from shelf Coordination to table with grace. A gility Concentratio	Independent	Independent d Child can unroll matanc smooth it out. When small folds to roll mat into a tight cylinder.
Balance, Coordination Agility Concentration	Leads to:	Advancing         Independent         Leads to:         Leads           Child can unroll mat and         Child can unroll mat and         Independent skills Hand         Fall           s amelines needs help         smoth it out. When         control Attention to         samothing it out. When         control Attention to           s amothing it out. When         rolling, child makes         detail         rolling, child makes         detail           rolling, child may need         small flots to roll mat         shift cylinder.         spring         spring           few rolls but is         ontervise able to roll         mat into a tight cylinder.         spring         spring
Fall Advancing Spring	Level	Level Fall Advancing Spring
Jane has become much more confldent carrying ( tray across the room. He coordination and belance has improved greatly since last spring!	Notes	Notes Jane needs help getting santed rolling the mat bu then pays careful attention to each turn an takes pride in her tightly rolled cylinder!

## ALIGNING STATE STANDARDS TO MONTESSORI MATERIALS

State Standard PS 2.4 Understand that hand washing initiated by an adult is a self help skill SEP 3.2 & PS 2 Develop self regulation, self control, and self help skills	rubs soap over hands, rinses water off and dries hands	Hand Washing         Beginning         Progressing         Advancing         Independent         Leads           Description         With adult assistance,         Child turns on water but         Child is able to         Child is able to         Independence           Child turns water on         needs help regulate water, uses         regulate water, user, uses <t< th=""></t<>
turns off water and dries hands.	pumps soap, rubs soap force and temperature. appropriate amount of appropriate amount of thoughts over top & bottom of Child uses soap pump soap, is inconsistent soap, rubs soap over Concentration hands, rinses hands but is inconsistent with about rubbing in soap whole hand, rinses all Attention to D completely of soap, appropriate quantity. and rinsing hands. Can soap off, turns off	Beginning Progressing Advancii With adult assistance, Child turns on water but Child is able to child turns water on. needs helo regulating regulate water.
dirt off and when rinsing independently, and does not getail independently, soap off consistently.	aap force and temperature. appropriate amount of appropriate amount of thoughts of Child uses soap pump soap, is inconsistent soap, rubs soap over Concentration but is inconsistent with about rubbing in soap whole hand, rinses all Attention to Detail appropriate quantity, and rinsing hands. Can soap off, turns off	Progressing Child turns on water but needs help regulating
dry hands independently.	appropriate amount of soap, is inconsistent about rubbing in soap and rinsing hands. Can	Advancing Child is able to regulate water, uses
water and dries hands.	appropriate amount of soap, rubs soap over whole hand, rinses all soap off, turns off	Independent Child is able to
	thoughts Concentration Attention to Detail	Leads to: Independence s Sequencing of
Spring		Level Fall
		Notes

Walking on the Line	Beginning	Progressing	Advancing	Independent	Leads to:	Level
Description	Child follows line but Child is more	Child is more	Child is walking heel to	Child is walking heel to Child walks heel to Motor planning	Motor planning	Fall
Child walks heel to toe on a taped line with does not keep balance conscientious of toe following the line toe, balancing, while (running, kicking a ball,	does not keep balance	conscientious of	toe following the line	toe, balancing, while	(running, kicking a ball,	
hands at their side or while carrying an object or stay on line.	or stay on line.	staying on the line but	and balances most of	staying on the line but and balances most of following the line climbing, etc.)	climbing, etc.)	
		takes large steps and	the time. May spread	takes large steps and the time. May spread holding hands behind Development of self	Development of self	
		looses balance	arms out to balance.	arms out to balance. back or with an object control	control	
		sometimes.		in hand.		Spring
State Standard						
10.4aa Demonstrate muscle control and balance						
10.4bb Demonstrate eye/hand coordination &						
muscle control						

State Standard 10.4a Demonstrate muscle control and balance 10.4bb Demonstrate eye/hand coordination & muscle control		looses balance sometimes.	arms out to balance.	back or with an object control in hand.		Spring	
Transferring Activities	Beginning	Progressing	Advancing	Independent	Leads to:	Level	Notes
Description Spooning, pouring, tongs, baster, droppers, sponges - all foster concentration, directionality (left to right) hand control, fine motor (nince mean	Uses fist grip to hold Fist grip is beginning i object and transfers refine and transferrin making several spills. is more consistent an Repeats transfer a few child is repeating the times. transfer more.	Fist grip is beginning to Child is using a three refine and transferring finger grasp and is more consistent and transferring child is repeating the consistently with transfer more. relative ease. Child transfer more.	Child is using a three finger grasp and transferring consistently with relative ease. Child	Child is using a pincer grasp and is able to transfer objects with ease. Child repeats transfer many times	Dressing Skills Using Utensils Drawing/Coloring Handwriting	Fall	
State Standard			repeats transfer many and displays good times and displays concentration.	and displays good concentration.		Spring	
PM 10.5q increase strength & control of small muscles in the hands M10.50 increase Eye/hand coordination as pincer grasp develops							
Washing/Polishing Activities	Beginning	Progressing	Advancing	Independent	Leads to:	Level	Notes
Description Table Washing, Silver Polishing, etc. are multiple step activities in which the child needs to think in sequence in order to be successful.	for time and P a	Child does activity in Child uses activity Child uses activity i sequential order more consistently in sequential steps (fi sometimes and usually sequential order and is second, third) with completes a full work developing longer little to ne effort & concentration disabase sond	Child uses activity more consistently in sequential order and is developing longer concentration.	n rst,	Coordination Concentration Independence Care for the environment	Fall	
State Standard AL 1.14 Engage in pretend and symbolic play and games that require several, sequential actions AL2.YT. B Know the sequence of familiar routines.	full work cycle.			-	ought	Spring	

Washing/Polishing Activities	Beginning	Progressing	Advancing	Independent	Leads to:	Level	Notes
Description	Child uses activity for Child does activity in Child uses activity Child uses activity in Coordination	Child does activity in	Child uses activity	Child uses activity in		Fall	
Table Washing, Silver Polishing, etc. are	short periods at a time sequential order more consistently in sequential steps (first, Concentratio	sequential order	more consistently in	sequential steps (first,	Concentration		
multiple step activities in which the child	but not necessarily in sometimes and usually sequential order and is second, third) with Independence	sometimes and usually	sequential order and is	second, third) with	Independence		
needs to think in sequence in order to be	sequential order and completes a full work developing longer	completes a full work		little to no effort &	Care for the		
successful.	does not complete a cycle.		concentration.	displays good		Chring	
	full work cycle.			concentration.	Sequential Thought	00	
State Standard							
AL 1.14 Engage in pretend and symbolic play							
and games that require several, sequential							
actions AL.2.YT.B Know the sequence of familiar							
routines.							

Tops & Bottles Lock & Key	Beginning	Progressing	Advancing	Independent	Leads to:	Level	Notes
Description	Child puts two items	Child begins to have Child's hand control is Child easily	Child's hand control is		Bilateral Coordination Fall	Fall	
Child puts two parts of an object together to together but not		better hand control becoming more		manipulates two items skills such as, dressing,	skills such as, dressing,		
create a functional outcome	necessarily with a	and is making progress refined and child is	refined and child is	to work together for a writing, cutting, etc.	writing, cutting, etc.		
	productive outcome. toward a desired		usually successful	desired outcome.			
		outcome.	manipulating two				
			objects/items.				
State Standard						Spring	
PM 10.5m: Twist wrist to turn hand &							
manipulate it with the other							
PM 10.5p Hold an item with one hand and							
manipulate it with other AL.4.OTC Attempt							
problem solving activities to achieve a positive							
outcome.							

PM 10.5p Hold an object with one hand and manipulate it with the other PM 10.5q Increase strength & control of small muscles in the hands	State Standard					Velcro, Button, Zipper, Snap & Buckle Frames manipulate the item two hands are needed more re-fined with	Description	Dressing Frames
					with one hand.	manipulate the item	Child tries to	Beginning
		support first hand.	second hand to	successful in using	but is not consist any	two hands are needed	Child understands that Child is becoming	Progressing
			more consistent	success with item is	but is not consist any hand movements and using both hands.	more re-fined with	Child is becoming	Advancing
						manipulate item easily Hand Control	Child is able to	Independent
			Dressing Self	Refinement	Fine Motor	Hand Control	Independent skills	Leads to:
	Spring						Fall	Level
								Notes

BeginningProgressingAdvancingWith adult assistanceNeeds less adultGoes through stepschild is guided through assistance with the sequential stepssequencing and handsuccessfuland motor skills are control is improving.independently with	Independent SS Can sequence steps ore independently, and is able to manipulate th tools using more	AdvancingIndependentLeads to:Goes through stepsCan sequence stepsFosters fine motorsequentially, is moreindependently, and isskills such as holding asuccessfulable to manipulatewriting utensil,independently withtools using moredevelops
	Independent Can sequence steps independently, and is able to manipulate tools using more	Advancing Independent Leads to: Goes through steps Can sequence steps Fosters fine motor sequentially, is more independently, and is skills such as holding a successful able to manipulate writing utensil, independently with tools using more develops

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AL 3.24 Demonstrate more complex concept knowledge PM 10.5 Create simple block structures 2.4.YT.A.1 Engage in measurement experiences 2.4.OT.A.1 Use basic measurement vocabulary. 2.1.YT.MP Engage and persist when measuring and sorting objects	State Standard	Knobbed Cylinders, Cube Tower, Broad Stair, activity out and putting material away.	Materials	comparative vocabulary	fine motor control &	with sequences & systematic operations,	dimensions, develops attention in working	Foster perceptions of differences in	Description	Visual Discrimination: Size & Dimension
		activity out and putting away.	assistance in taking assistance in putting	not see errors in recognize errors in grading. Needs adult grading, needs adult	assistance. Child may	to smallest with adult	material from largest	Child can grade	Beginning	
		material away.	assistance in putting	recognize errors in grading, needs adult	assistance. Begins to	to smallest with adult to smallest with adult to smallest	material from largest	Child can grade	Progressing	
		with minimal assistance.	& put away material	self corrects errors in can take out an grading. Can take out away material	independently. Child	to smallest	material from largest	Child can grade	Advancing	
	lessons to other children.	corrects errors in grading. Child can give	& put away material independently and self	can take out and put away material		to smallest	material from largest material from largest material from largest Problem Solving	Child can grade	Independent	
					Pincer Grasp	Math Skills	Problem Solving	Visual Discrimination	Leads to:	
	Spring							Fall	Level	
									Notes	

Stereognostic Discrimination Description In this activity the child practices identifying objects by touch alone.	Foster perceptions of differences in color and geometric shapes Color Boxes I & II Geometric Solids, Sorting Activities State Standard 2.4 OT.A2 Participate in sorting objects 2.4 OT.A2. Classify objects and count the number of objects in each aregory 3.2.1A.1 Describe objects by their characteristics	Visual Discrimination: Color & Form
Beginning Progressing Child explores object Child either closes with hands and learns or used blindfold an the feel of each object, can identify one object three objects in bag	Gan match Color Boxt   Has mastered Color and sometimes name Boxt   Has mastered Color (Can point to some shapes and geometric solids when asked. Can sort by one attribute. Gan sort by one attribute. Solids when asked. Solids when asked. Solids when asked.	Beginning
eyes nd	ric <sup>rs</sup>	Progressing
Advancing Child either closes eyes or used blindfold and can identify three objects in bag with	cra name most colors Gan name all colors or shape without and shapes prompts. Independently.	Advancing
Independent Child either closes eyes or used blindfold and can identify all of the objects in bag with	and shapes independently.	Independent
Leads to: Tactile Discrimination	Categorizing	Leads to:
Level 1 Fall	Spring	Level
Notes		Notes

2.1. IA.1 Explore objects AL.1.OT.A Explore characteristics of and ask questions about objects people, activities and environments.

Materials Mystery Bag

> with hands or with adult or another
>  hands, with another
>  hands independently,
>
>
>  student's assistance.
>  independently.

Spring

# ALIGNING STATE STANDARDS TO MONTESSORI MATERIALS

Ketine discrimination of sound Materials Sound Cylinders State Standard 1.1 OT.C Categorize familiar sounds	nation	State Standard AL1 Constructing and Gathering Knowledge AL1.0T. A splore characteristics of and ask questions about objects people, activities and environments	Materials Texture Boards, Sandpaper Tablets, Geometric Solids	Description Materials are used to develop the sense of touch as well as discrimination of temperature and weight. Develops associated vocabulary.	Kinesthetic Discrimination - Touch	State Standard 2.3.OT.MP Use mathematical processes when creating and composing shapes. 2.4.YT.A.1 Engage in measurement experiences. 2.4.OT.A.1 Use basic measurement vocabulary.	Materials Cube Tower, Broad Stair, Red Rods	the sense of size ed vocabulary.	Description	Kinesthetic Discrimination - Size/Weight
quiet cylinder	Beginning Can discriminate a loud cylinder from a			object while the adult object while the adult enunciates the descriptive word.	Beginning			tine child prings objects to mat and sequences them while the adult enumerates the description.	With adult assistance	Beginning
sounds.	Progressing Can discriminate two extremes and match			The child teels each object and enunciates the descriptive word with cues from the adult.	Progressing		language.	sometimes sequences them in order. While doing so, the adult cues the descriptive	The child brings the	Progressing
	Advancing Can begin to grade sounds.			The child feels each object while using a blindfold and usually uses the correct description.	Advancing			to mat and sequences sometimes sequences usually sequences and independently them while the adult them in order. While them. The child can while rectifting the enumerates the doing so, the adult enunciate the description.	The child brings the	Advancing
	Independent Can match and grade sounds independent.			While using a blindfold the child is able to discriminate the object and name the descriptive correctly.	Independent			and independently while reciting the description.	The child sequences	Independent
	Leads to: Early Literacy			t t				Motor Planning Coordination	Fine Motor	Leads to:
Spring	Level Fall		Spring		Level		Spring		Fall	Level
	Notes				Notes					Notes

Montessori Developmental Progress Report: Toddler Sensorial

Appendix F: Survey for Teacher Feedback on New Progress Report By completing these questions, you are giving your consent to participate in this study. Completing this feedback form is completely voluntary and you may guit at any time. Completion of these questions is confidential. The tool will not collect your email or log in information, and the researcher will not know who completed this form.

\* Required

1. Were the new reports more or less useful than the current reports? In what ways? \*

- 2. How long did the form take you to complete per child? \*
  - 5-10 minutes 0
  - 10-20 minutes 0
  - 20-30 minutes 0
  - more than 30 minutes
- 3. What, if anything, did you find to be confusing? \*

4. What, if anything, about the specific topic areas did you find beneficial? \*

5. The progress report forms a strong alignment between the childhood development benchmarks and the Montessori materials and/or activities. \*

- Always
- Almost always
- No opinion
- Not always
- Never

6. Do you feel like the progress report will help parents better understand the purpose of the Montessori materials and/or activities? \*

- Yes 0
- No 0
- 7. How many years have you been a Montessori directress? \*
  - 0-5 years 0
  - 6-9 years 0
  - 10-14 years 0
  - 15-19 years 0
  - 20+ years 0

8. Is there anything else you would like the researchers to know about the progress report?

Appendix G: Survey for Parent Feedback on Newly Created Progress Report

By completing this feedback form, you are giving your consent to participate in this study. Completing this feedback form is completely voluntary and you may quit at any time. Completion of these questions is confidential and no identifiable information is collected.

\* Required

I would like my responses to be included in the study. \*

- Yes, please include my responses in the study.
- No, I would prefer my responses not be included.

If you would like to include your responses in the study, please enter the first three letters of your mother's maiden name plus the date of the month of your birth. For example, RHO24

For anonymous tracking purposes only

1. The new progress report explains the link between the Montessori materials/activities and developmental benchmarks (state standards). \*

- Strongly agree
- Agree
- No opinion
- Disagree
- Strongly disagree

2. I feel more knowledgeable about the link between the Montessori materials/activities and developmental benchmarks (state standards). \*

- Strongly agree
- Agree
- No opinion
- Disagree
- Strongly disagree

3. I more fully understand the purpose of the Montessori practical life and sensorial materials. \*

- Strongly agree
- Agree
- No opinion
- Disagree
- Strongly disagree

4. With a new tool to understand the Montessori materials, I place greater value on the work accomplished within the Montessori environment. \*

- Strongly agree
- Agree
- No opinion
- Disagree
- Strongly disagree

5. I find the new progress report format a better tool than the previous format to understand my child's development. \*

- Strongly agree
- Agree
- No opinion
- Disagree
- Strongly disagree

6. In what ways did you find this report beneficial? \*

7. In what ways did you find this report confusing? \*

8. Is there anything else you would like the researchers to know about this project?