

# THE DEVELOPMENT OF BASKET BALL GAME LEARNING MODEL THROUGH MODIFICATION OF FACILITIES AND INFRASTRUCTURES IN JUNIOR HIGH SCHOOL STUDENTS

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## Abstract

This study aims to produce a model of learning products through the modification of basketball game facilities and infrastructure are valid, practical, and effective. Methods in this study are Research and Development (R & D) in the order of 1) Needs Analysis, 2) Initial Product, 3) Initial Product Validation, 4) Initial Product Revision, 5) Draft Small Group Test Products, 6) Product Revision after Test Try Small Group, 7) Large Group Product Trial Draft, 8) Large Group Trial, 9) Big Group Trial Revision, and 10) Final Items. The result of small group experiment on filling the student questionnaire covering cognitive, psychomotor, affective, and motivational aspects is the average frequency distribution value of 72.9%, the shot rating includes the old learning model basket ball of 66.51%, the shot rating students of new learning model increased by 71,7%, meanwhile large group questioning test was obtained by frequency distribution equal to 78,4%, appraisal of basketball with old learning model equal to 68,20%, new student learning shoot increased by 72,30 %. So from the results of the basketball learning model products through having a good criteria of validity, practicality and effectiveness. Based on the above explanation has been found basketball learning model through the modification of basketball game facilities and infrastructure the implications of the research have valid, practical, and effective criteria so that it can be applied in the junior high school level.

**Keywords:** Learning Model, Basketball Game

## INTRIDUCTION

Initial Product Design Facilities and Infrastructure Game Basketball Through Modification of Facilities and Infrastructure in SMP. The Equipment used to play basketball games according to Oliver, (2007: IX), the player must wear a supportive shoe and bearing the appropriate pads for the dynamic moves required in a basketball game, they shall also use non-restrictive movements governed by leagues or associations of support appropriate to the movement and activities of the game in general. Oliver, (2007:IX) also suggested that necessary design rings and pump balls suitable for the surface of the field, eg a rubber / synthetic ball for indoor or leather ball for outside field. The field used is a special field of about 27.5 m wide and about 15.2 m wide, basketball hoist should be as high as 3.05 m, 3-digit line corresponding to league or association (6.02 m for high school and college, 6, 70 m up

7.24 m for NBA match) should be clearly marked. The free shooting line is 4.57 m from the basketball ring, the three-second track is 3.66 m wide (Oliver,2009:XI).

Basketball court infrastructure According to Triyanto (2010: 1 ). The basketball game field should be flat, has a hard surface free of anything blocking with a length of 28 m and a width of 15 m measured from the inner side of the boundary. According to (Hal Wissel, ph.d. 2000: 2) the 28 m wide field and 15 m wide from the inner sections of this size limit can still be changed according to the portion. The conclusion of the field should

be square-shaped surface has a length of 28 m and width of 15 m in measuring from the inside. Field Basket and Field modified.

Source:(<http://belajarbasket.weebly.com/ukuran-lapangan-basket.html>)

Means of Basketball Games According to (Hal Wissel, ph.d. 2000: 2) Basketball is a BallA round shape made of leather, rubber, or synthetic material around the ball between 75-78 cm and weighs 600-650 grams. According Triyanto (2010: 13). The ball is round circle

with weight reaching 600 grm made of leather. The conclusion of the ball is made of synthetic materials such as leather weighing 600 grm up 650 gram. According to (Syafarudin in willadi rashid 2010: 102). Hand ball has a maximum weight of 475 grams and a minimum of 425 grm and the circumference is not more than 60 cm and not less than 54 cm. Conclusion Hand ball is made of leather with a weight of 475 grm its periphery 54-60 cm. Standard and Modified Basketball BallsSource:

(<http://infosahabat.com/ukuran-bola-basket-nasional-internasional-sarana-peralatannya>)

**The Nature of Basketball Games**Basketball is a great ball game played by two squads, each team consisting of five players both sons and daughters.which is played on a rectangular field that aims to insert as many balls into the opposing Ring (Kosasih, 2008: 15). Bagoes, (2014: 613) suggests that basketball is also a team sport or group of 12 people for each team where 5 people play as core players and 7 players of the reserve.

In basketball there are some basic techniques of basketball game that is basic ball technique (Passing), basic technique of receiving ball, basic dribbling technique, shooting technique. In addition, basketball is also a sport that can be played by everyone from kids to parents. Although basketball is a sport of young people with the most players are teenage males, but the bolabasket is mostly played by both men and women of all ages and body sizes, even sitting in a wheelchair. Although basketball most pemiannya have a high posture , but many opportunities for short players who have high skills. Along the development of the era of participation among old players and women continue to increase. Girls are more likely to play basketball in high school games than in other sports and women's support groups build networks that will continue to enhance women's participation. (Wissel, 2000: 1)

According to Gusril cited the journal Waham and Agus (2005) the design of sports modifications into effective physical education in improving the quality of learning through learning and fun activities, and can overcome the lack of learning facilities and infrastructure. So, the design of this modification is very important and effective in improving the quality of learning.

Ball (modification)	<ul style="list-style-type: none"> <li>• Ball is made of rubber or leather which is filled with coconut husk or fibers</li> <li>• • Size of the ball sphere 40 cm• Weight 300 grm or 400 grm</li> <li>• • The diameter is 50 cm</li> </ul>
Ring	<ul style="list-style-type: none"> <li>• The length is 50-60 cm</li> <li>• Oval (oval) with a width of 5 cm and 3.5 cm thick• 15 cm long handle- Field size 25 m long-- Field width 14 m- modified field.</li> </ul>
The field is still raw	Half field length 14 m and its width is only 7 m.
Modified fields	
Number of players	<ul style="list-style-type: none"> <li>• 5 basketball players each in for 2 teams</li> <li>• Each team is 5 people</li> </ul>
Play Equipment	<ul style="list-style-type: none"> <li>• Wear sportswear</li> <li>• Wearing sweatpants</li> <li>• Wear socks</li> <li>• Wear sport shoes</li> <li>• Modified balls</li> <li>• Modified fields</li> </ul>
Old game	<ul style="list-style-type: none"> <li>• The game of basketball is done in a 10x shot at close range</li> <li>• To start the game starts with toss who first throws the ball into the ring.</li> <li>• Beginning is done with the provision when getting a turn then welcome enter the ball into the ring</li> </ul>
Referee	<ul style="list-style-type: none"> <li>• The game is led by 1 referee</li> </ul>
How to print poin	<ul style="list-style-type: none"> <li>• A point is printed if the player in the field successfully inserts the ball into the specified ring basket</li> <li>• Every individual on a 10x experimental shots shot into the ring.</li> <li>• The total number of points to 10 if the shot goes into the ring.</li> </ul>

This Basketball game is required to use the basic techniques of the game according to the position where the pemali is located. The game rules used in basketball games are 2 team games. The basketball game consists of 4 rounds each round consisting of 10 minutes. The beginning of the game of basketball is done by determining when the ball is loosened from the hand (both hands) referee on a jump ball. Each team tries to enter the basketball into the opponent ring to print boala into the ring of each opponent's team. The winning team in the basketball game is the team that collects the most points / scores of basketball games.

**Rules of Basketball Game**The Basketball game, as described above is played in the prescribed manner and rules of the learning materials. The rules applied are simple in the hope that they can be easily understood by learners. The rules in the game of basketball are as follows:

A. Field

A. Field

- The basketball field is rectangular.
- The game field should be flat, has a hard surface that is free of everything that is blocking
- The size of a basketball court with a length of 28 m and a width of 15 m measured from the inner side of the boundary.

**2.3. Initial Draft of Basketball Game Rules and Equipments**Table 4.12.

**Basketball Game Rules and Equipments**Initial product design.

Prepare the equipment 10 minutes  
1. Initial activity 30 minutes• students are lined up and say good-bye or greetings to the gurus

- Before starting basketball learning all students and teachers pray.
- Teacher asks and ensures students are physically and mentally healthy
- Giving direction to students, what learning will be done

- Heating 30 minutes
- Jogging 20 minutes
- Perform 10 minute static and dynamic warming led by the teacher.

#### 4. kegiatan Inti 120 menit

- Students are given direction to ready to enter the field
- Students take turns in learning that has been modified basketball facilities and infrastructure through variations of modification with each student performing 5 minutes for 2 rounds of basketball game that has been modified facilities and its infrastructure and basketball games. Each student varies the model of learning that has been modified facilities and infrastructure of basketball games.

#### Closing Activity 20 minutes

- Conducting a cooling or cooling led by the teacher and one of the students
- Teachers provide feedback, criticism, and advice on learning.
- After learning the teachers and students pray and shake hands
- Teachers and students together return the equipment used.

### CONCLUSIONS AND SUGGESTIONS

Conclusion Questionnaire validation questionnaire results from expert penjaskes validators on the draft product game-based learning model average percentage of 80% while the validation of the learning experts on the draft product game-based learning model obtained an average of 80% of validation results that have been assessed by expert penjaskes and learning experts hence, the product of game-based learning model has entered in valid category and can be used in learning of physical education and health (penjaskes) big ball (basketball) of School student

Secondary (Junior High). Results of student questionnaire analysis obtained a percentage of 78.4%. Based on predetermined criteria, the product of this game-based learning model has been categorized as good or practical to use. A new learning model or a large soccer ball model (basketball) mealui kasround game given to the students effectively to make students actively moving and learning model of big ball (basketball) through basketball game can be used in learning process of big ball (basketball) on Junior High School students.

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