

# Designing Authentic Assignments to Engage Students

Collaborations for Empowerment & Learning

Center for Academic Excellence Conference 2014: Innovative Pedagogy & Course Redesign XIII

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## Session plan

- What is Information Literacy?
- Backward design
- Components of authentic assignments
- Our collaboration
- Plan a great assignment

# Information Literacy

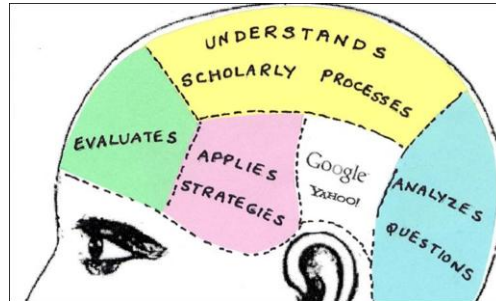


Image source: <http://www.beloit.edu/library/infolit/>

"... is the set of skills needed to find, retrieve, analyze, and use information."

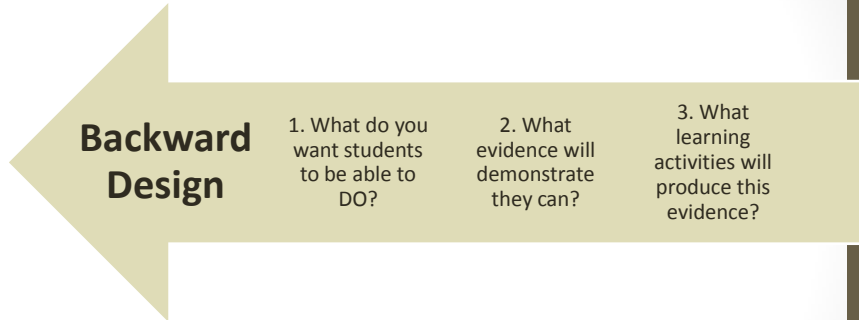
Source: <http://www.ala.org/acrl/issues/infolit/overview/intro>

## Information Literacy: recent research

- **Project Information Literacy**—national research study from University of Washington Information School (Head and Eisenberg)
  - College students feel overwhelmed and don't know where to start
  - They rely on same few tried and true resources
  - In the workplace, employers want new hires to be more patient and persistent in information seeking, and to use co-workers as a resource
- Health and financial literacies

# Backward Design

(Grant Wiggins and Jay McTighe)



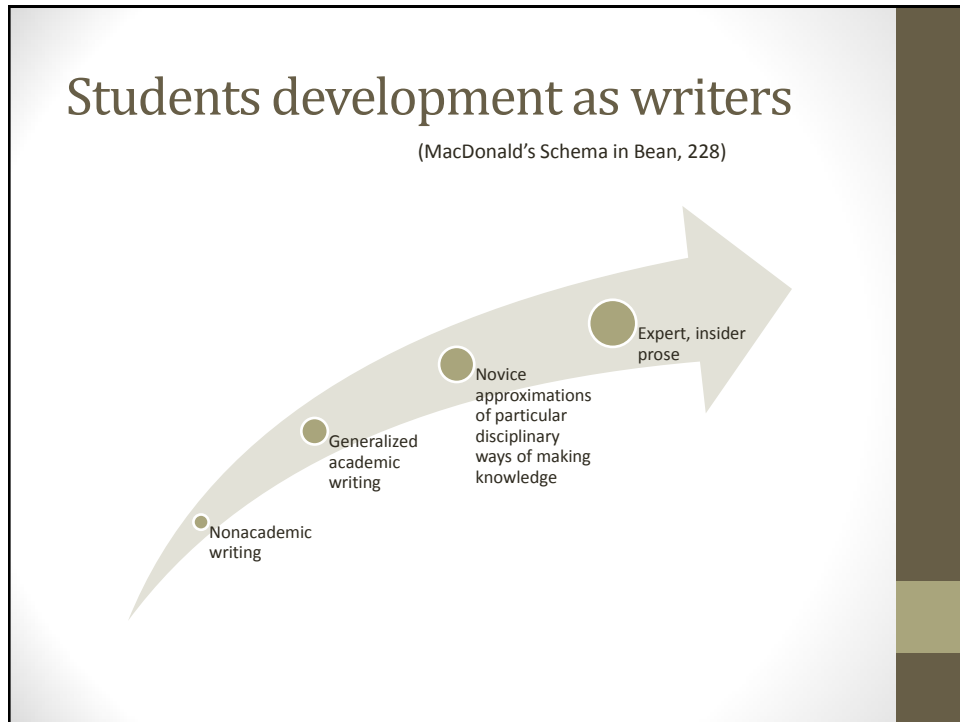
Design last assignment first . . .

then earlier, scaffolding assignments that give students the skills needed for the final assignment.

# Subskills of Research Writing

- Asking discipline-appropriate research questions
- Establishing rhetorical context – audience, genre, purpose
- Finding sources
- Using sources effectively
- Integrating sources – writing in own voice
- Taking notes
- Citing sources

Bean, John C. "Designing Problem-Based Assignments." In *Engaging Ideas: The Professor's Guide to Integrating Writing, Critical Thinking, and Active Learning in the Classroom*.



### Example 1

- “Write an eight- to ten-page research paper on therapeutic touch (TT). Follow APA conventions for documentation.” (Bean, 92)

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“Data dump”

## Effective assignments

- Interactive components
- Meaning-constructing task
- Clear explanations of expectations/rubric

## “Meaning-constructing” tasks

### Rhetorical context = RAFT

- Role
- Audience
- Format
- Task

### Authentic task = TIP

- Task as
- Intriguing
- Problem

### Example 2

- “You are a staff nurse at a large urban hospital. Recently the hospital became embroiled in a major controversy when several nurses were discovered to be practicing TT on patients without the permission or knowledge of their supervisors or attending physicians. The hospital governing board reprimanded the nurses and issued a general statement forbidding the practice of TT, which they called “non-scientific quackery.” Research the professional literature on TT, looking especially for evidence-based studies. Then write a decision to forbid the practice of TT. Support your position with reasons and evidence based on the professional literature.” (Bean, 92)

Think of how you want students to use sources.

## BEAM: Using a source as . . .

- B – a background source
- E – an exhibit or evidence
- A – an argument source
- M – method or theory sources

## Scaffolding Assignments

1. All students have same topic/problem
  - Provide students with all sources
  - Provide students with some and ask to find 1 or 2 on own
  - Require students to find all sources
2. Use sources as evidence—e.g. therapeutic touch
3. Use sources as argument
  - Students write focused literature review - controversy, state of the art, or gaps
  - Students create annotated bibliographies

## My challenge

- An honors seminar for NON-biology majors
- Any format, subject, scope

## At the Course Design Institute

- “Backwards design”
- Designing authentic assignments



## “Genetics, Ethics, and Society” Goals

- To learn the molecular genetics used in biotechnology applications
- To be able to thoughtfully engage in discussions about how this technology is used in our society
- To be able to critically analyze arguments about the use of biotechnology in our society

## Class activities

- Lectures on biology
- Readings about biotechnology and its impact on society
- Class discussions about readings

## How we collaborated

- Wrote a draft of the prompt during Joan's workshop at the CDI.
- Meetings
  - Library class
  - Online guide
  - Expectations from students

## The assignment

- Role Audience Format Task
- Task as an Intriguing Problem

## How we prepared the students

- Lecture on biotechnology in class
- Discussion of GMO article in class - scaffolding use of sources
- Assignment prompt given
- Library class

## Library Class

- Intro to course [guide](#) and database
  - Background sources-more scaffolding
- Exercise on evaluating bias

## Student responses: positive

- Strong engagement
- Loved the role playing
- Positive comments on course evaluation

## Student responses: negative

- Recognizing bias exercise
  - Comfort with Internet sources
  - Our time constraint
- Assignment too confining (1 student)

## My reactions: positive

- Students were thoughtful and creative
- They came up with interesting ideas
- They found appropriate sources to cite

## My reactions: negative

- Some students did not follow assignment cue
- Reliance on reviews
- Variable quality articles on controversial subjects

## Primary v. Secondary Sources

- Original data analysis a requirement of informed citizenship?
- Recommendations of databases intended for scientists/physicians (e.g. PubMed)?

## Assignment was a Success

- Students cared about the assignment
- Output was interesting and thoughtful
- Authentic task

## Librarian = Ally

- Database access
- Library class to help scaffold assignment
- Perspectives on desired outcomes/ information literacy

## Faculty = Ally

- Database use
- Encourage evaluating vs. locating
- Connect as a liaison
- Information literacy as more than library jargon

## Alternative Assignments & Multimedia Formats

- Integrate special sources or original research: interviews, polling, data
- Oral reports/ posters
- Video, Podcast
- Social media: Twitter, RSS, Wikis
- Recreations & Simulations
- Public exhibit/ performance

## References

Association of College & Research Libraries. (2014). Introduction to Information Literacy. Retrieved from <http://www.ala.org/acrl/issues/infolit/overview/intro>

Bean, J.C. (2011). *Engaging Ideas: The Professor's Guide to Integrating Writing, Critical Thinking, and Active Learning in the Classroom*. Chichester: Wiley.

Beloit College. (2014). Information Literacy at Beloit College. Retrieved from <http://www.beloit.edu/library/infolit/>

Head, A. J. (2012). Learning Curve: How College Graduates Solve Information Problems once they Join the Workplace. Sonoma, CA: Project Information Literacy. Retrieved from [http://projectinfolit.org/pdfs/PIL\\_fall2012\\_workplaceStudy\\_FullReport.pdf](http://projectinfolit.org/pdfs/PIL_fall2012_workplaceStudy_FullReport.pdf)

Head, A. J. (2014). Learning the Ropes: How Freshman Conduct Course Research Once They Enter College. Project Information Literacy. PIL and U of Washington Information School. Retrieved from <http://www.projectinfolit.org/publications/>

Head, A. J. (2013). "Project Information Literacy: What Can Be Learned about the Information-Seeking Behavior of Today's College Students?" Proceedings of Association of College and Research Libraries (ACRL) April 10-13, 2013. Chicago: ALA. Retrieved from [http://www.ala.org/acrl/sites/ala.org/acrl/files/content/conferences/confsandpreconfs/2013/papers/Head\\_Project.pdf](http://www.ala.org/acrl/sites/ala.org/acrl/files/content/conferences/confsandpreconfs/2013/papers/Head_Project.pdf)

McTighe, J. & Wiggins, G. (2004). *Understanding by Design: Professional Development Workbook*. ASCD: Alexandria VA.