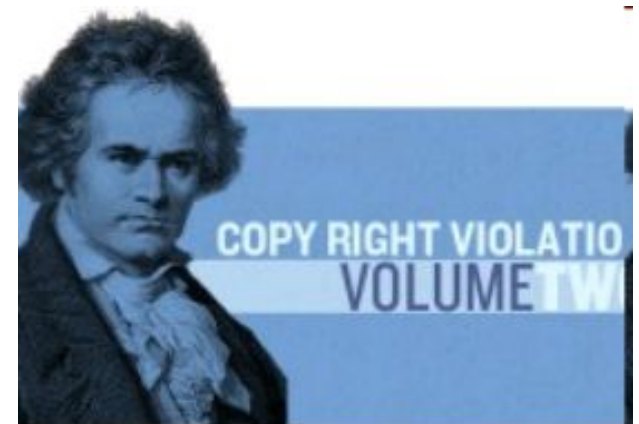


# Nuts and Bolts of Project Based Learning



# Successful Projects...

- ☐ Arise from a meaningful question
  - ☐ Take time
  - ☐ Require investigation
  - ☐ Are semi-structured, requiring substantial student input
- ☐ Follow a timeline with articulated milestones to be reached along the way
- ☐ Require a tangible end product

## • Successful Projects, cont....

- ☐ Include presentation for a real audience
- ☐ Include moments of reflection
- ☐ Blur subject area boundaries—  
emphasize issues, skills, concepts
- ☐ Blur line between “slow” and “fast” learners
- ☐ Create a culture of accomplishment
  - ☐ Connect students with adult mentors
  - ☐ Conceive of teachers as “coaches/ facilitators”  
and students as “colleagues”

# Project Planning Sheet

- Begin with the end in mind
- Create your Essential Questions
- Plan the Assessment: Products, Artifacts and Criteria
- Map the Project (--the day to day)
- Identify materials needed
- Differentiation
- Reflection

- Assessing Projects

- Assessment starts on Day One
- Develop criteria (standards) from models
- Co-construct assessment with students
- Include presentation for a real audience
- Include moments of reflection
- Collegial pedagogy → mutual vulnerability
- Assessment looks at the project design, too!

Essential Question

Who Owns Assessment?

- What and How to Assess
- Content
  - Mid and Final Products (individual slice)
  - Quiz or exam
  - Student reflection
  - Other ??? (Expert consultants?)
  - Note: Look for “knowing transformation” of content
- Process
  - Observation
  - Work logs
  - Evidence of drafting, revision, participation in critique, etc.
  - Other ???

- What and How to Assess

- Skills

- Observation
- Product analysis
- Performance
- Student reflection/testimony
- Other ???

- Surprises

- Observation
- Student reflection/testimony
- What's “off the grid?”

- Caveat!!
- No Group Grades!!
- (Group product, individual accountability)
- Balances to strike (always):
  - Content, process, skills
  - Achievement, growth
  - Other ???



# Begin With The End In Mind



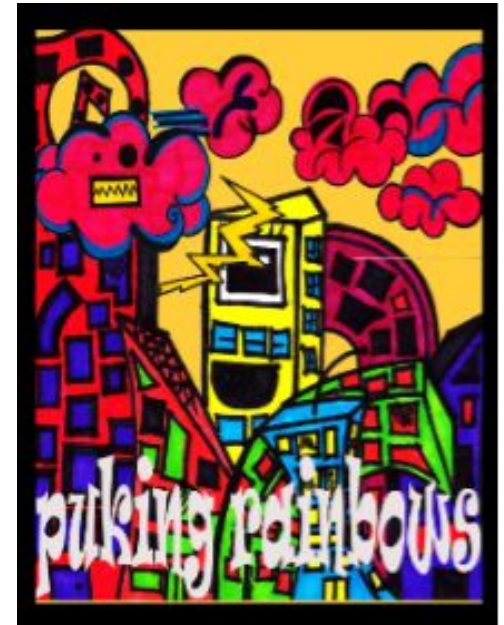
- What do you ENVISION?
  - Think IDEAL here
  - Try to avoid “This won’t work because...”
  - We can find solutions to problems later!

# Create Your Essential Questions



- This is the class' focal point
  - What should everyone UNDERSTAND as a result of completing this project?
- Example: How clean/safe is our water?

# What is your Product?



- What will the students produce?
- When will they produce them?
- You need multiple deadlines and critique sessions

# Product:Criteria



- Not just what students will do, but HOW WELL it should be done
- Rubrics
- Show samples of beautiful work

# MAP The Project



- **Backwards Design**

- Begin with the end in mind
- How can you make sure every student is successful



# MAP The Project – Build Your Calendar



- How long will your skill/concept lessons take?
- What does your schedule look like: pull outs, holidays, testing...
  - Have several critique sessions!
  - Make final products due one week before exhibitions

# Identify Materials Needed



- Uber-important, but sometimes neglected
- Has been the downfall of many a project
- Take your time make a list, go shopping
- Organize for student accessibility

# Differentiation



- Are there entry points for all?
- Build in supports for struggling students
- Challenge work--how do you push students to work deeper?



# Reflection



- Take the time for student reflection-look at, think about, discuss final products
- Student self-assessment, What am I proud of? How can I do improve?
- Take the time for teacher reflection-look at, think about, discuss final products