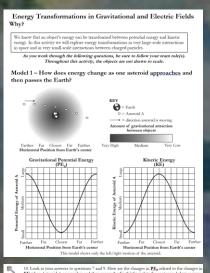
## It's Not the Same Thing:

Writing POGIL Activities for Secondary Art and Science Courses



When Asteroid A is closest to the Earth, the asteroid's Kinetic Energy is
\_\_\_\_ and its Potential Energy is \_\_\_\_

After Asteroid A passes the Earth, the asteroid's Kinetic Energy

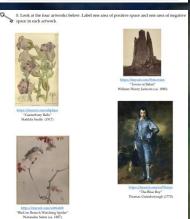
## **Physics Activities**

- 45 to 90 minutes
- "Why?" box as first text
- Robust visual/mathematical models
- Three E-I-A learning cycles
- Mastery of key concept is a symbolic/verbal task
- Application questions engage a team in cooperative problem-solving
- Useful for introducing fundamental concepts
- Followed by team problem- solving or explanation of real-world phenomena

## **Art Activities**

- 10 to 20 minutes
- Learning objective as first text
- Robust visual models
- One E-I-A learning cycle
- Mastery of key concept is a visual task
- Application questions engage an individual student in creating their art
- Useful for introducing fundamental concepts
- Followed by individual or team student real-world art projects





## **Authors**

Mare Sullivan, Seattle Pacific University School of Education, Seattle WA Gwen C. Katz, Freelance author and illustrator