

Energy of the City

ART AND SCIENCE

GRADES: 8th grade

BASED ON



Barbara Probst

Exposure #106: N.Y.C., Broome & Crosby Streets, 04.17.13, 2:29 p.m., 2013

Ultrachrome ink on cotton paper
Twelve photographs framed individually:

12 parts; each 29 x 44 in. (75 x 112 cm)

L8.2014:11

OBJECTIVES

- Students will discuss the difference between kinetic energy and potential energy.
- Students will be able to identify kinetic and potential energy in a piece of artwork.
- Students will create a piece of artwork using recycled magazines and Mod Podge.
- Students will be able to identify and use the Elements and Principles of Art.
- Students will be able to discuss their work and self-critique it to make it better before finalizing the work.

CONCEPT

I was taken aback by the energy in Probst's "Exposure #106:N.Y.C". The idea of photographing the City and seeing its movement made me stop and think of the energy around us every day and the idea of kinetic and potential energy. I then want the notion of recycling photos from magazines to continue the idea of the energy in the "work" to continue on a light switch cover.

MATERIALS

- Recycled switch covers
- Magazines
- Scissors
- Mod Podge
- Exacto knives
- Paint brushes
- Image of Exposure #106: N.Y.C., Broome & Crosby Streets, 04.17.13, 2:29 p.m., 2013

VOCABULARY

Kinetic energy: energy in motion

Potential energy: energy an object has because of its position, condition, or chemical composition

CLASS EXPERIENCE

Principles of Art: Contrast, Balance, Unity, Pattern, Movement, Rhythm,
Elements of Art: Form, Space, Shape, Color, Value, Line, Texture

PROCEDURE

1. The image of Exposure #106: N.Y.C., Broome & Crosby Streets, 04.17.13, 2:29 p.m., 2013, will be shown to the students with a discussion of the Elements and Principles of Art. As the discussion continues talk about the "energy" of the piece through movement and emphasis.
2. Then ask the difference between kinetic and potential energy. What is their prior knowledge on energy and discuss how the artist uses that energy in her piece and how it connects with the artwork.
3. Introduce the project to the students and ask them to pick a switch plate. I love recycling so I always talk about how Art can be made with anything!
4. Demonstrate finding photos in magazines to use and making a pattern with the plate to cut the correct size. I like for my students to pick a background and then work on top of it so there is no white or cream space.
5. Next talk to them about what will be the next layer of images and how will it have energy. Have the students play around with different pictures before they modge podge the images together.
6. When the cover is dry, use the exacto knife to cut out the holes for the switches.

ASSESSMENT

Craftsmanship
Energy within their collage

NATIONAL STANDARDS

ART

3PE

Connect science and technology with the development of art in various cultures.

4PE Understand how social, cultural and political factors affect what contemporary artists and designers create.

1PR Select, organize and manipulate skills, elements and techniques appropriate to the art form when making art.

2PR Demonstrate increased technical skill and craftsmanship by using more complex processes and materials to design and create two and three-dimensional artworks.

3PR Use critical thinking and visual literacy to communicate a specific idea.

4PR Present personal artworks that show competence in the use of art elements to create meanings and effects.

6RE Develop and apply criteria to assess personal works for content and craftsmanship.

OHIO STANDARDS

Science

PHYSICAL SCIENCE (PS)

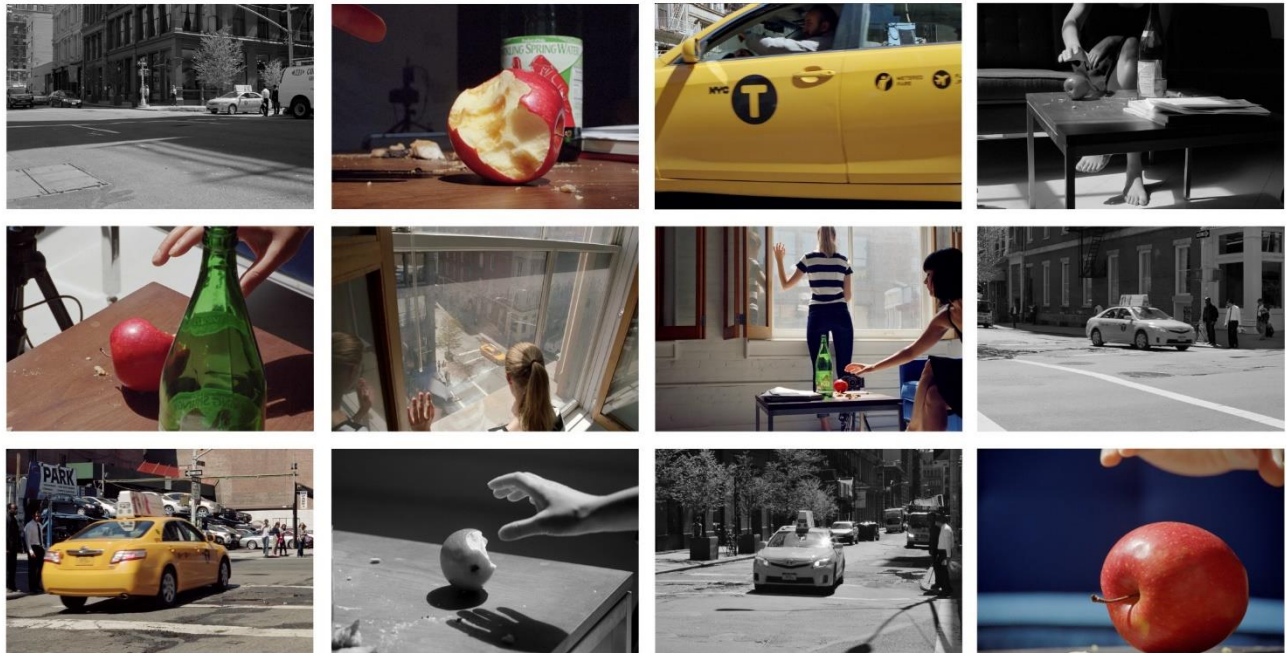
Topic: Forces and Motion

This topic focuses on forces and motion within, on and around the Earth and within the universe.

CONTENT STATEMENT

There are different types of potential energy. Gravitational potential energy changes in a system as the masses or relative positions of objects are changed. Objects can have elastic potential energy due to their compression or chemical potential energy due to the nature and arrangement of the atoms that make up the object.

CLASS EXPERIENCE



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