

Science Saturday At the Lyman Allyn Presents:

Rainbow Painting!

LEARN ABOUT: LIGHT AND RAINBOWS

What you'll need:

- Paper
- Watercolor paint
- Paintbrush and water
- a CD
- Flashlight

How to do the project:

1. Direct the flashlight at the blank side of the CD. Notice how it reflects light, but be careful to not point the flashlight or the reflection toward your eyes!
2. Position the flashlight and CD so that a reflected rainbow lands on your piece of paper. Experiment with the distance between the flashlight and CD and the CD and paper to find your perfect rainbow.
3. Using watercolor paint, try to capture the reflected rainbow with paint and create your own rainbow! Watered down acrylic paint can also work well in place of watercolors.
4. Experiment with the size of the rainbows or paint more! How many colors can you see in each rainbow?

DID YOU KNOW?

Rainbows are made up of 7 colors that come from light: Red, Orange, Yellow, Green, Blue, Indigo, and Violet. A common acronym to remember these colors is "ROY G. BIV"!



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Light enables us to see what is around us

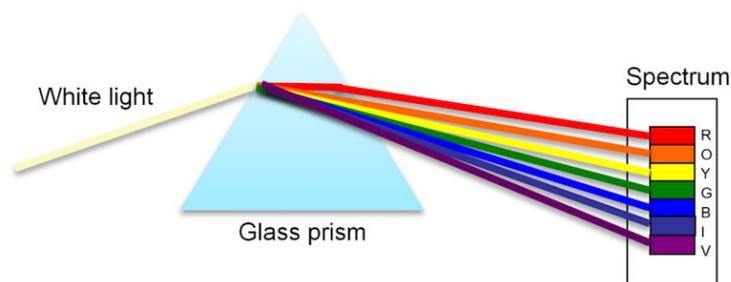
Reflection is when light bounces off an object making it visible

Fun fact! Light reflects off an object at the same angle which it hit the object

Refraction is the change in direction of a light passing from one medium to another

Dispersion: Visible light is actually made up of different colors. Each color bends by a different amount when refracted by glass.

Rainbows are a phenomenon that is caused by reflection, refraction and dispersion of light in water



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