



# OMSI EARLY LEARNER ACTIVITY: RAINBOW GLASSES

**Objective:** Children explore rainbows by making their own pair of rainbow glasses.

**Age Range:** 4 & up

## CONTENT TOPICS

Physics  
Color

## PROCESS SKILLS

Observing<sup>1</sup>  
Manipulating Materials & Equipment Effectively<sup>1</sup>  
Designing and Making<sup>1</sup>

<sup>1</sup> Science Process Skills <sup>2</sup> Head Start Child Outcomes <sup>3</sup> Oregon Early Childhood Foundations

## TIME REQUIRED

**Advance Preparation**  
About 30min.

**Set Up**  
About 10 min.

**Activity**  
About 30 min.

**Clean Up**  
About 10 min.

## MATERIALS

Multi-colored poster board, rainbow optics paper\*, glue sticks, and multi-colored pipe cleaners  
\*available from [www.rainbowsymphony.com](http://www.rainbowsymphony.com)

## ADVANCE PREPARATION

- Cut out glasses bases. (See Template)
- Cut the rainbow optics paper into manageable pieces that will fit onto the glasses. Be sure to leave a big enough border around the optic paper to be glued to the glasses base.
- Punch holes on edges of bases for pipe cleaner ear pieces

## EXPLANATION

*The following is a sample of some scientific explanations behind this subject. For more information see the books in the Discovery Box.*

- *The scientific name for a rainbow is the **light spectrum**.*
- *You can see rainbows when light is broken into all of its different color parts by something like water or glass called a **prism**.*

## ACTIVITY PROCEDURE

1. Set out the glasses bases, rainbow optics paper, markers, pipe cleaners and glue sticks.
2. Ask the children to glue the paper onto the glasses.
3. Decorate the outsides with markers.
4. Give instructions for securing the pipe cleaners to the glasses base and curving it over the ears. This may take some extra help.
5. Finally, have children put on glasses and look at a light source.

## **DISCUSSION**

*To discuss the topic, explore the children's knowledge on the subject through open-ended questions.*

**Ask:**

What does the world look like through your glasses?

Have you ever seen a rainbow before? Where?

Can you name some of the colors in a rainbow? Can you name ALL the color in a rainbow?