



Curiosity Guide #201

Vision

Accompanies Curious Crew, Season 2, Episode 1

The Eye Team

Investigation #1

Description

It's a one-eye challenge! Can you do it?

Materials

- 2 pencils with erasers per person

Procedure

- 1) Hold a pencil in each hand at your side, with the erasers facing toward your body.
- 2) Close one eye, and keep it closed.
- 3) Extend your arms to eye level. Try to touch the erasers together.
- 4) Was it difficult? Why?
- 5) Discuss observations.

My Results

Explanation

The human eye is separated by about six centimeters. People use both eyes to establish two perspectives of the same object. This is called binocular vision. When the object is closer than 100 feet, people use the dual image to determine depth, distance, and perception within the object's surroundings. By closing one eye and performing a task with monocular vision, it is much harder to see how far away things are from each other, and to line them up. As a result, you probably found it difficult to touch the ends of the erasers together.

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