

Name: _____

Hr: _____

DRAW YOUR FACE

Purpose: To determine the relationship between object and image size for a plane mirror.

1. Use a Vis-a-Vis marker to section a large mirror into 4 equal quadrants. Lay the mirror flat or prop it against something steady while you draw your face on one-quarter of the mirror with your marker. You don't need to be artistic; it is more important to be accurate (outline face shape, eyes, ears, mouth, and nose). Record the following measurements.

	Length of face (vertical) (cm)	Ear-to-Ear Distance (cm)	Eye-to-Eye Distance (cm)
Student 1 – Actual Face			
Student 1 – Drawn Face			
Student 2 – Actual Face			
Student 2 – Drawn Face			

2. What is the approximate ratio of actual face size (object) to drawn face size (image)?

3. With one partner holding the mirror and the other's face reflected in it, move apart several steps.

A. How does the image size change relative to the face drawing on the mirror? Explain.

B. Does the image size appear to change? Why or why not?