

Depth Perception and Binocular Cues

Name _____

Hypothesis: Students will find it more difficult to catch a ball with one eye closed, than with two eyes open.

Procedure:

Person 1 is catcher. Person 2 is pitcher.

Take two or three practice throws and catches.

Pitcher throws ball to catcher 10 times with both eyes open. Catcher must catch with **1 hand**.

Count how many catches and misses occur. Record results after finishing 10 catches.

Repeat, but this time the catcher keeps one eye closed.

Switch roles. Person 2 is the catcher. Person 1 is the pitcher.

Your Results as Catcher:

Condition	# of Catches	# of Misses
Two Eyes Open		
One Eye Open		

Your Partner's Results as a Catcher:

Condition	# of Catches	# of Misses
Two Eyes Open		
One Eye Open		

For homework (5 Points):

Write answers on the back of this sheet.

1. Does your data support the hypothesis? Explain.
2. Name and describe **two** reasons (Hint: They are cues) why two eyes are better than one for depth perception.
3. Explain why it was, however, possible to have **some** degree of depth perception with only one eye open. You need **two** reasons.