

THE EYES HAVE IT!

NAME _____

PER _____

PAGE _____

OBJECTIVE: _____

RESEARCH:

seeing: _____

lens: _____

retina: _____

rods: _____

cones: _____

tired cones: _____

afterimage: _____

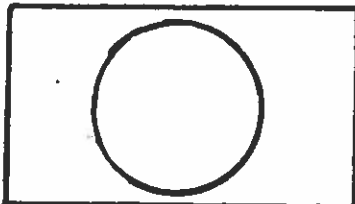
complimentary color: _____

illusion: _____

depth perception: _____

ACTIVITIES:

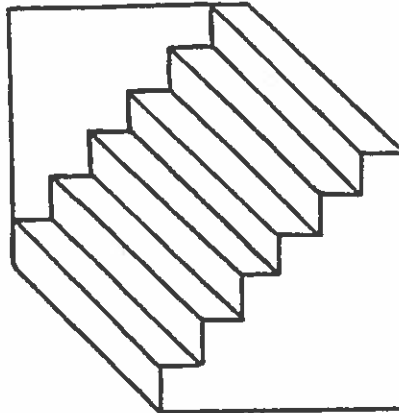
- A. 1. Color the circle in the rectangle red.
2. Stare at the red circle in the rectangle for 30 seconds.
3. Now move the paper and stare at the empty rectangle. DO NOT BLINK YOUR EYES!
4. Record what you see when you move your eyes from the circle on the left to the box on the right: _____
5. What is the complimentary color of red? _____



DO NOT BLINK
when moving
your eyes to
the box on
the right.

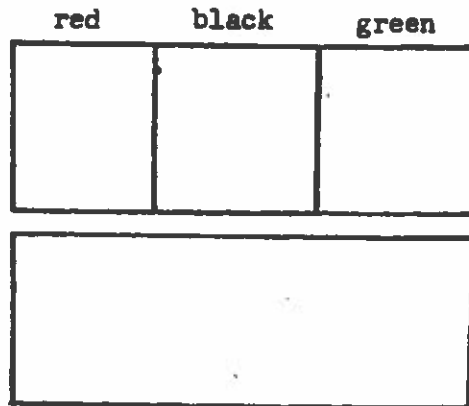


- B. 1. Stare at the stairs.
 2. Tell what you see happening: _____



- C. 1. Color the left part of the rectangle red, the middle black and the right side green.
 2. Stare at the colored box for 30 seconds.
 3. After 30 seconds move your eyes and stare at the empty box.
 4. What do you see in the empty box?(be specific): _____

 5. What part of your eye helps you see color? _____
 6. What is the complimentary color of green? _____ black? _____

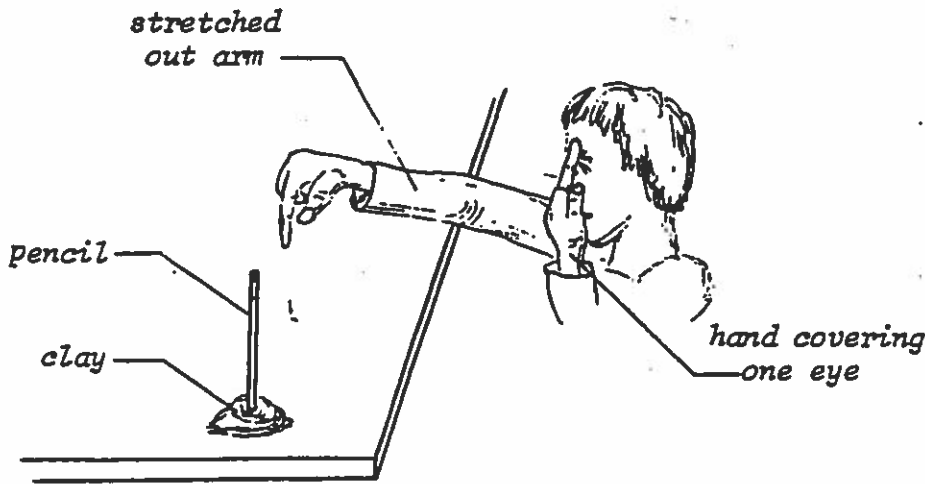


- D. 1. Roll a sheet of paper into a tube about 1 inch in diameter.
 2. Hold the tube to one eye.
 3. Place your free hand against the tube, with your palm facing you.
 4. Now keep both eyes open and look across the room.
 5. Place your free hand against the tube about 3 inches from your eye.
 6. Now slide your free hand along the tube to about 8 inches from your eye.
 7. Describe what you see: _____

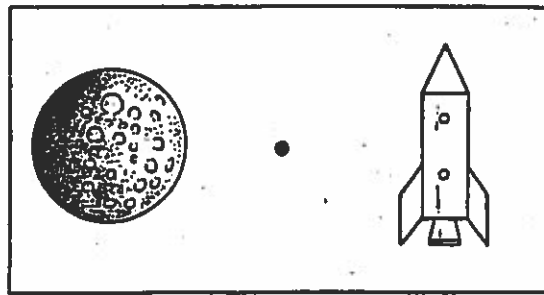
6. TOUCH THE PENCIL

1. Place the pencil vertically in a piece of clay on the table top.
2. Approach the pencil from the side about 3-4 meters away with one eye (cover the other eye with your hand). Hold the other hand stretched out and without hesitation, point down with the index finger and try to touch the pencil.
3. Repeat again. Now repeat with both eyes open.
4. Why would most students miss touching the pencil end? _____

5. After you tried to do the trick several times, why did you get better at touching the pencil? _____
6. What do you lack when just one eye is used? _____



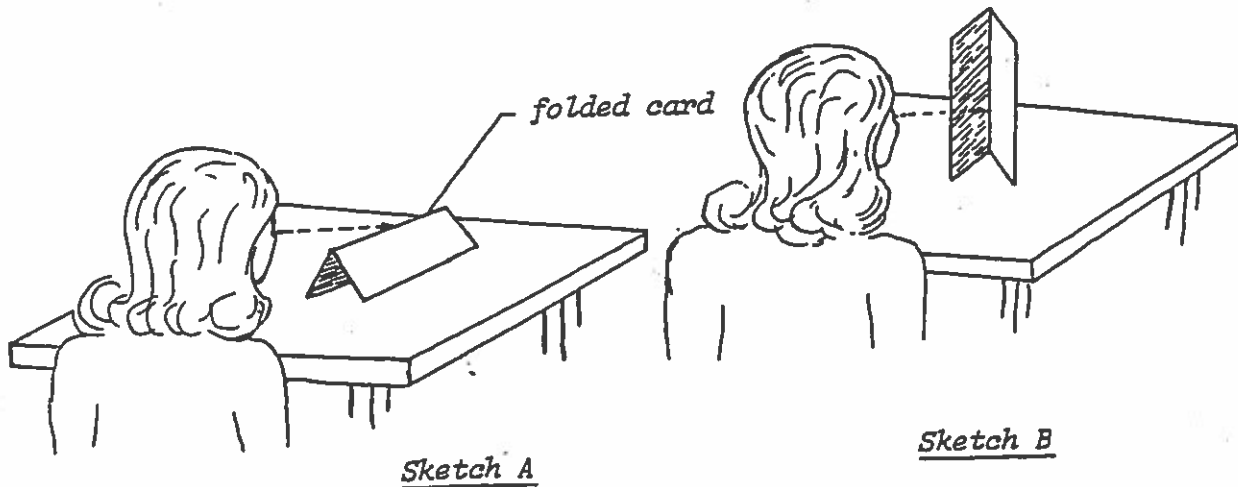
H. FLY THE ROCKET TO THE MOON



Hold the page so your nose touches the dot in the middle of the picture. Turn the page around slowly in a counterclockwise direction. Describe what you see: _____

E. THE SWAYING CARD

1. Place the folded card directly in front of you on the table with the ridge pointing in your direction (see sketch A).
2. Select a spot in the center of the fold and stare at it until steadily with one eye shut.
3. First, you will see the card like sketch A. Continue staring at it until suddenly you see the card in its second position (like in sketch B).
4. When you see the card in its second position (standing up) move your head slowly from side to side (still keeping one eye shut). Do you observe the card swaying back and forth? _____

**F. THE FLOATING PIECE OF FINGER**

1. Hold your left and your right forefinger about 30 cm in front of you at the height of your eyes. Hold them horizontally about two-three cm apart.
 2. Do not focus your eyes on the fingers but look over them and focus at a far point.
 3. Wiggle the fingers slightly up and down. Describe what you see: _____
-