

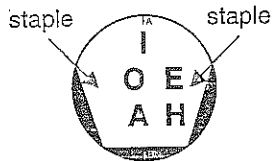
Illusions

Grade 3

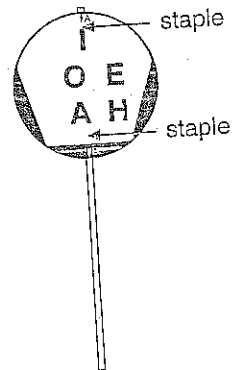
Spinning Illusions

Directions:

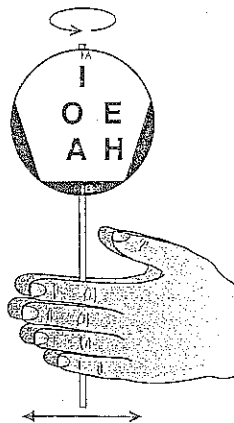
1. Print out the pages, there are 3.
2. One "Spinning Illusions," cut out the circles.
3. Place the circles back-to-back, lining up the arrows at A and B. Staple the circles together at the left and right, near the edge.



4. Slip a straw between the circles (if your teacher doesn't have a straw, ask to come to Mr. Miller to get one). Your straw needs to line up with A and B. The Arrows should be centered on the straw. Staple the straw so it makes a lollipop shape.



5. Hold the straw in both hands at arm's length. Twirl the straw rapidly.



Optical Illusions

Answer these questions.

Look at figure 1

What do you see?

Did you see the two faces first or the vase?

This is called a figure and ground illusion. The viewer (you) sees one part as the figure and the other part as the ground (not the ground like on the ground outside).

Figure 2

Stare at figure 2.

Describe here what you see.

Figure 3

Answer yes or no on the page. Now measure them to find out the answer.

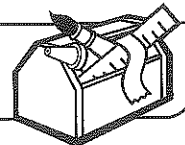
Figure 4

Answer yes or no on the page, call Mr. Miller at 43741 (with your teacher's permission, of course) to get the answer.

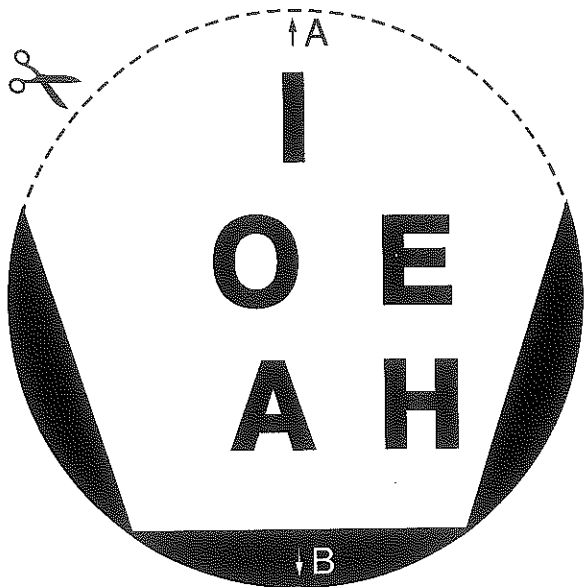
Now, make your own Spinning illusions from page 187.

PROJECT
3

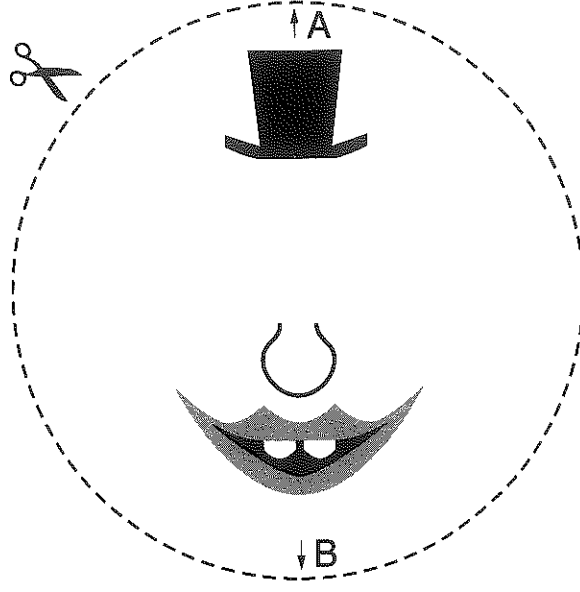
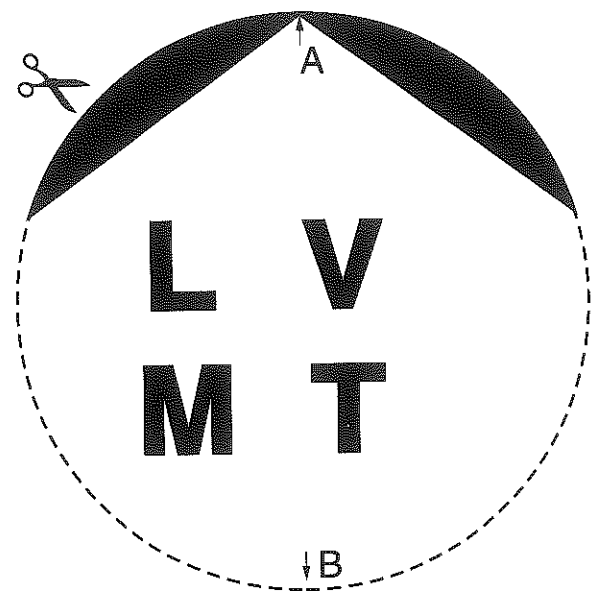
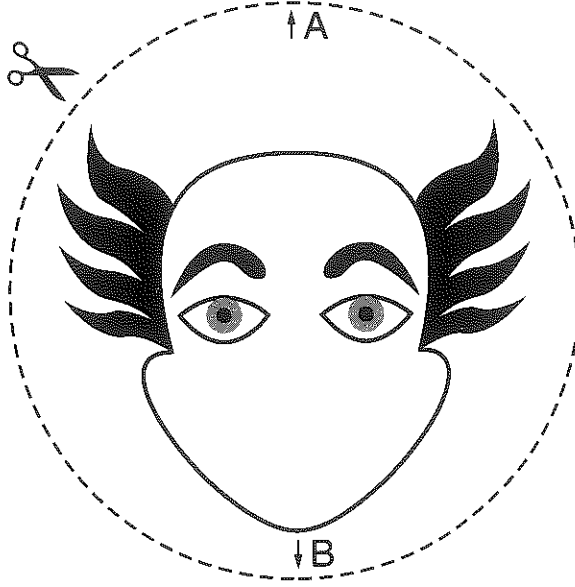
Spinning Illusions



Set 1

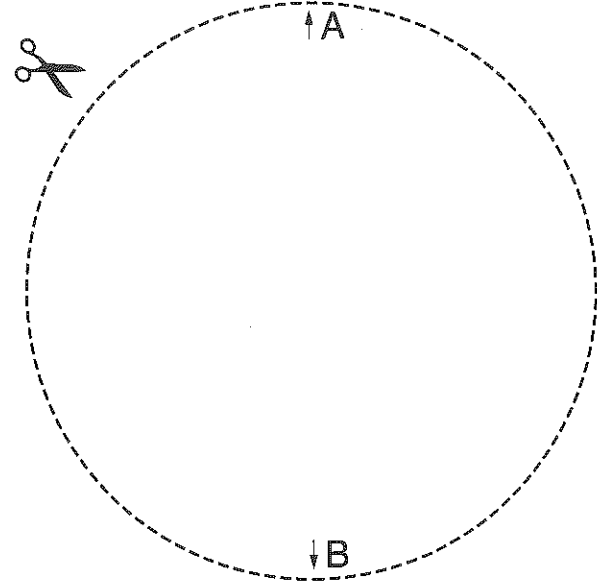
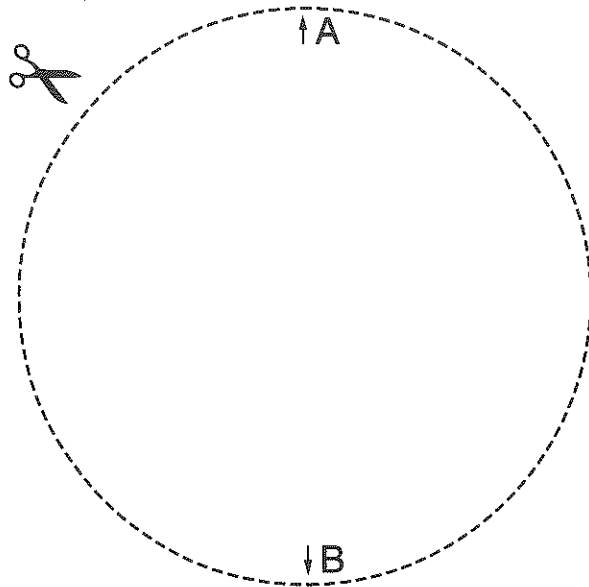
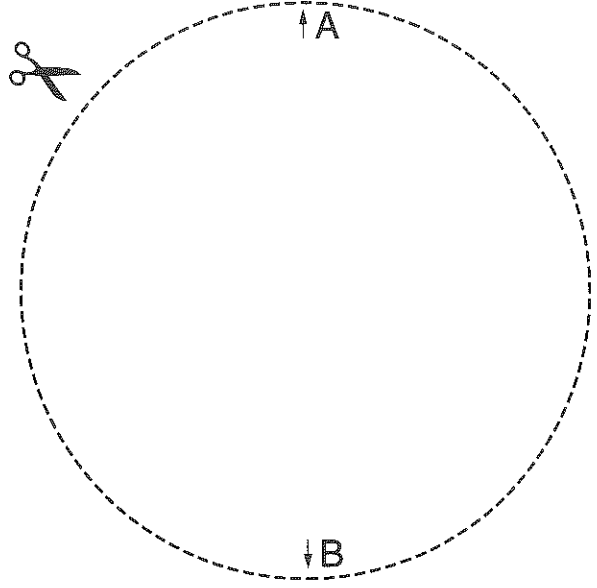
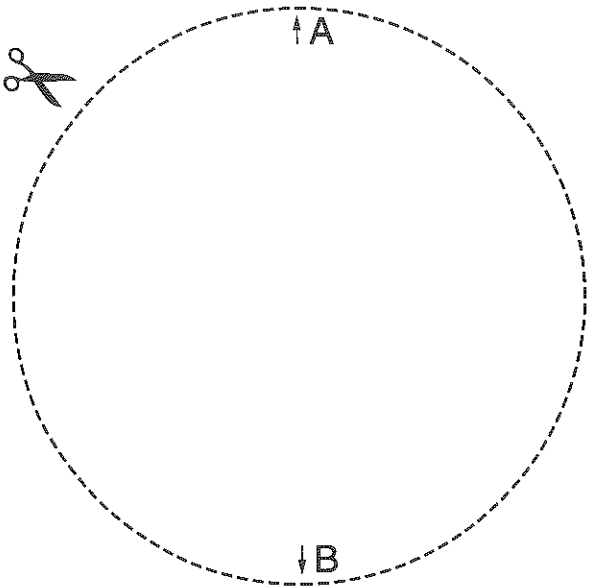
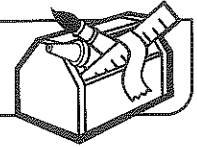


Set 2



PROJECT
3

Spinning Illusions Blank



Optical Illusions

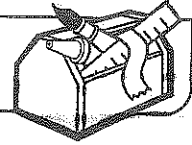


Figure 1

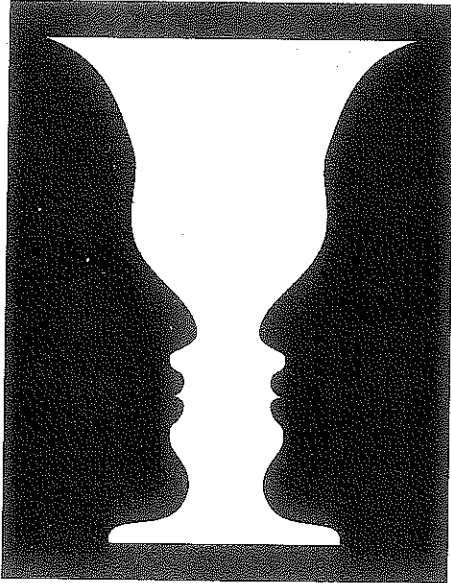


Figure 2

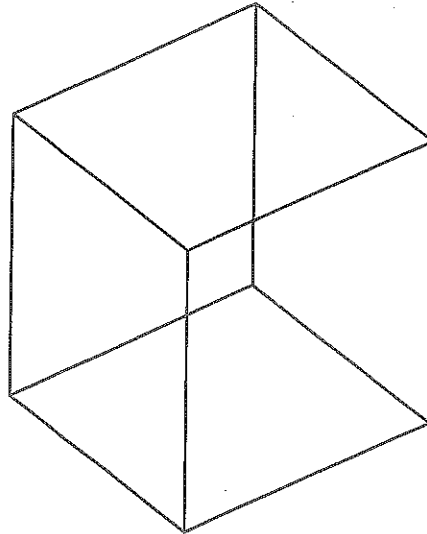


Figure 3

Are the horizontal line segments the same length?

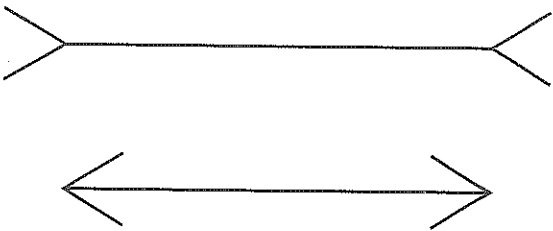


Figure 4

Are the horizontal line segments straight?

