

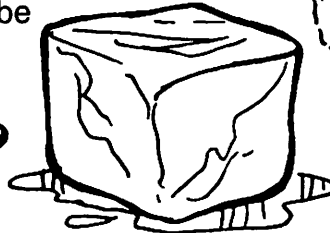
Melting Ice Cube

You Will Need

saucer



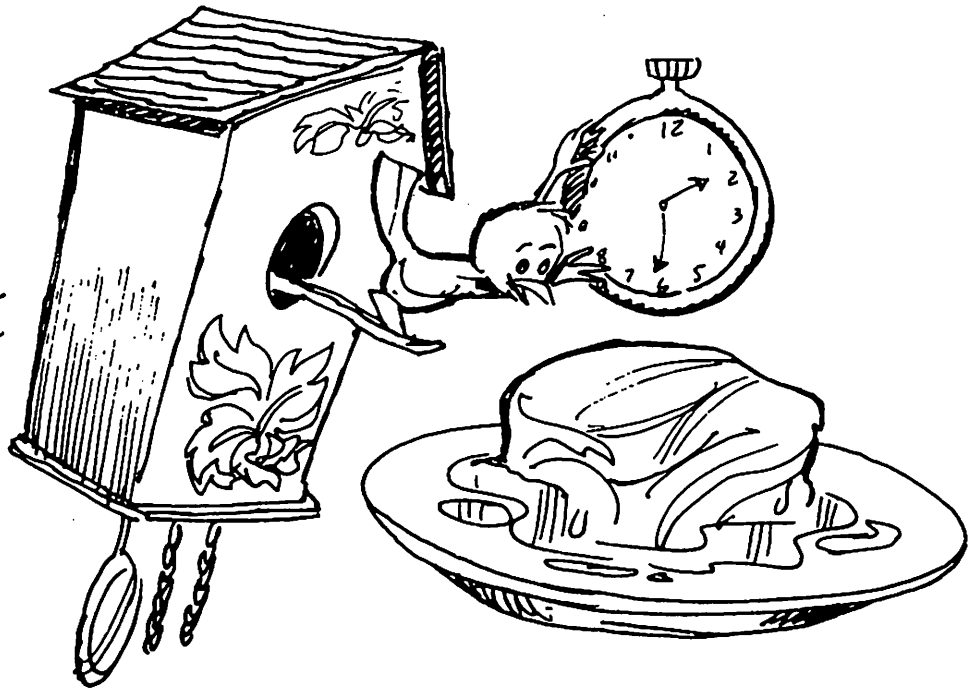
ice cube



Procedure

- (Hypothesis)*
1. Estimate the number of minutes it will take the ice cube to melt completely.
 2. If your estimate is correct, what time will it be when all of the ice is melted?

Record your start time and estimated end time on the back of this page.



Questions

Answer on the back.

1. How long did it take for the ice to melt?
2. Where could you have placed the saucer so the ice would have melted faster? Why?
3. List some of the things that could be done to make the ice cube melt faster.
4. Indicate what the results might have been if a larger piece of ice had been used. A smaller piece of ice.
5. What does the experiment demonstrate?

Egg In Water

You Will Need

- quart jar
- salt
- water
- teaspoon
- egg



Before performing the experiment, read through the procedure and predict what you think will happen.

Write your hypothesis on the back of this page.

Procedure

1. Fill the jar about 5/6 full with fresh, cool water from the tap.
2. Place the egg in the water and observe. *Record observation on back of this page.*
3. Remove the egg from the water and put in two (2) level teaspoons of salt. Stir thoroughly with a spoon. Put the egg back into the jar and observe. *Record observation on the back of this page.*
4. Repeat step #3 until the egg floats on the surface of the water.

Questions

Answer on the back of this page.

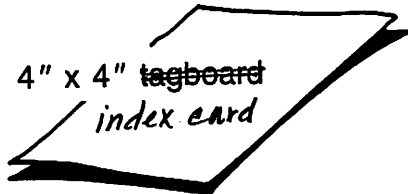
1. What happened when the egg was placed in the fresh water?
2. Discuss what happened when the egg was placed in salt water compared to when it was placed in fresh water.
3. How many teaspoons of salt did you have to add to make it float on the surface?
4. Why do things float better in salt water than in fresh water?
5. What do you think might happen to the egg if it were left in the jar for 24 hours? Two days? A week?



Penny On A Card

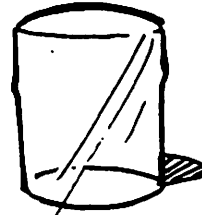
You Will Need

4" x 4" tagboard
index card



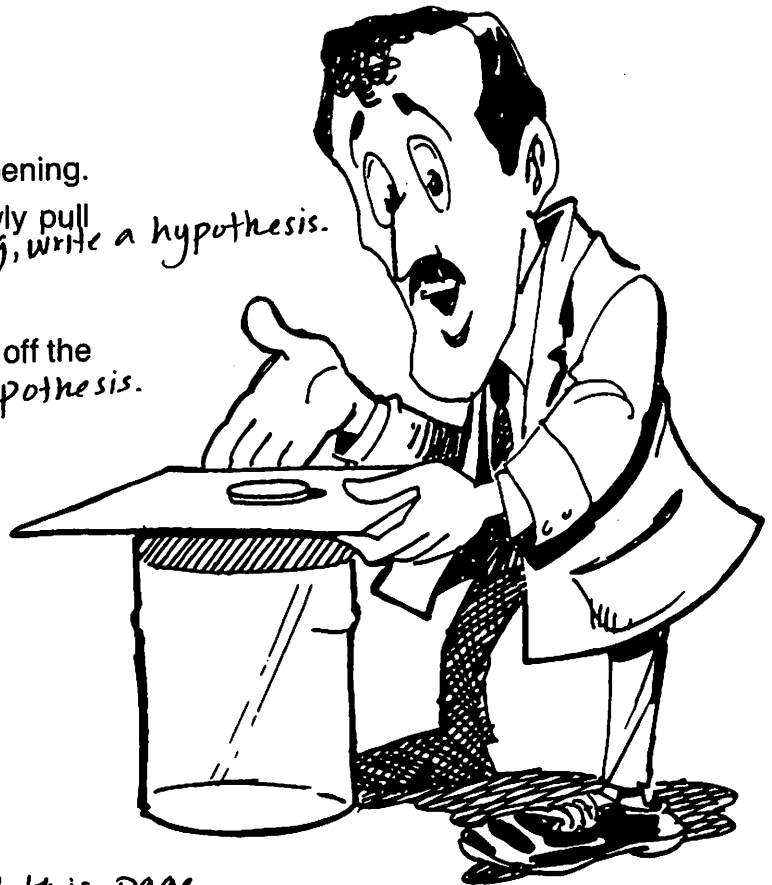
penny

drinking glass
or cup



Procedure

1. Place the glass upright on a table.
2. Put the card on the glass so it covers the opening.
3. Center the penny on the card and then slowly pull the card off the glass. *Before completing, write a hypothesis.*
4. Replace the card and penny on the glass.
5. Using your thumb and finger, "flick" the card off the glass. *Before completing, write a hypothesis.*



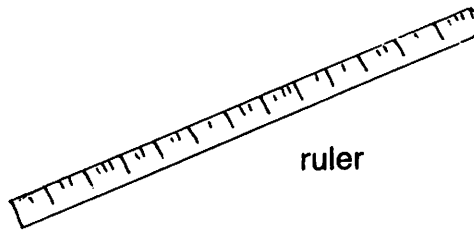
Questions

Answer on the back of this page.

1. Describe what happened when the card was pulled slowly off the glass.
2. What happened when the card was "flicked" off the glass?
3. Discuss what might happen if an object heavier than a penny were used. Lighter than a penny. A marble.
4. How can you relate the results of this experiment with real life experiences?

Disappearing Dot

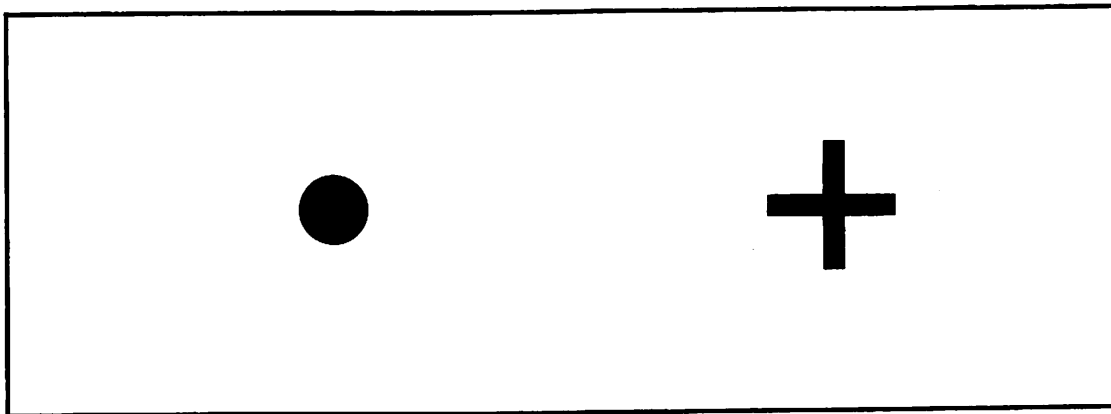
You Will Need



Here's How

1. Cover your right eye with your right hand and hold the chart out in front of your face at arm's length. Make sure the cross is on your right side.
2. While focusing one eye on the cross only, slowly bring chart closer to your face. There will be a point where the dot disappears from the peripheral vision. Measure the distance from the forehead to chart at this point.

cross and dot chart



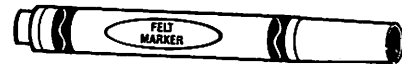
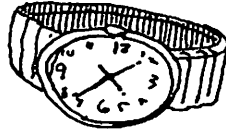
Questions

1. Were you able to find your blind spot? If so, how far away from your forehead was it?
2. How did your distance differ from your classmates?
3. How could the presence of a blind spot affect your daily activities?
4. Why isn't there a 'hole' in our vision where the blind spot is?

Black Flag

You Will Need

watch
or clock

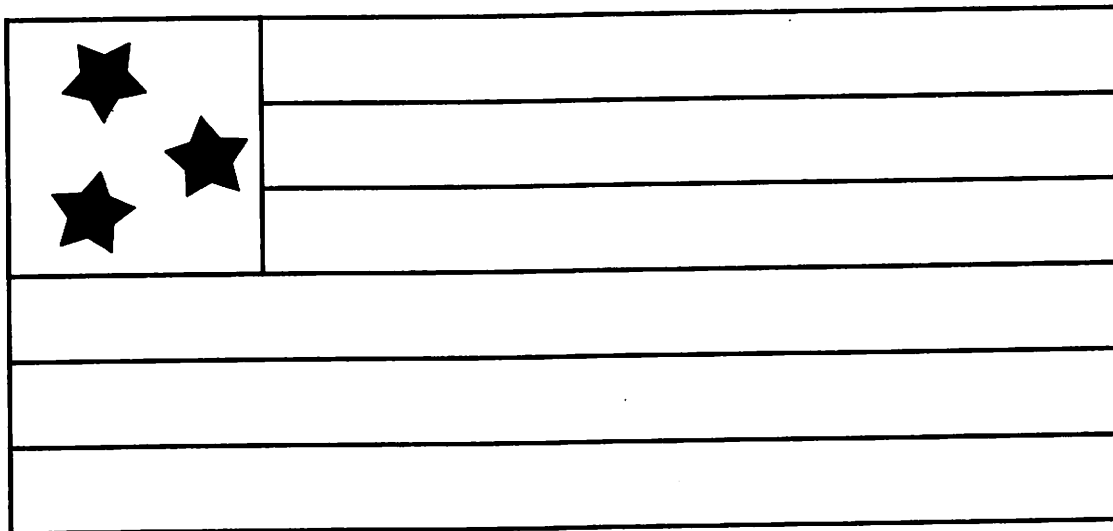


crayons or markers
black, green, and orange

Here's How

1. Color the flag using alternate black and green stripes and black stars on an orange field.
2. Stare hard at the the flag for 60 seconds, then look quickly at a blank piece of white paper. Observe the colors of the afterimage.

Write a hypothesis before completing this step.



Questions

1. What colors did you see in the afterimage of the flag?
2. Can you guess the afterimage color of blue, violet, yellow, and orange?

