

**VIRGINIA
STANDARDS OF LEARNING ASSESSMENTS**

Spring 2001 Released Test

**GRADE 3
SCIENCE**

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Science

DIRECTIONS

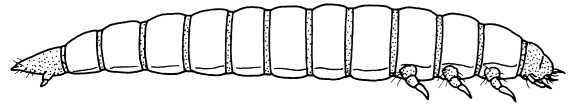
Read each question carefully and choose the best answer. Then mark the space in the answer booklet for the answer you have chosen.

SAMPLE

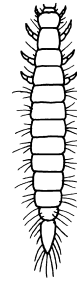
When the Earth is seen from outer space, it looks mainly blue. This is because most of the Earth is covered with —

- A ice
- B mountains
- C oceans
- D deserts

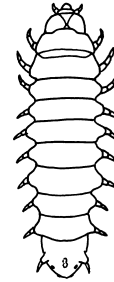
1



Which of these is the same as the animal above?



A



C



B

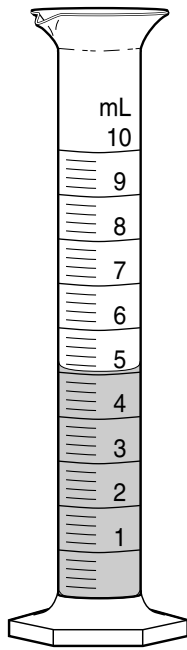


D

2 **If you could examine a piece of cloth with a hand lens, you would see that the cloth is made of —**

- F energy
- G threads
- H glue
- J minerals

3



What is the volume of the water?

- A 5.1 mL
- B 5.5 mL
- C 51 mL
- D 55 mL

4 In which Earth layer do most grasses grow?

- F Solid rock
- G Topsoil
- H Subsoil
- J Bedrock

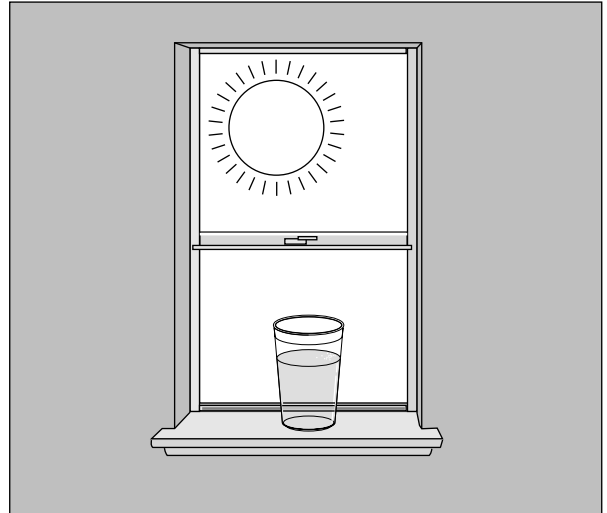
5



What type of animals would be found in the above environment?

- A Forest animals
- B Grassland animals
- C Rain forest animals
- D Pond animals

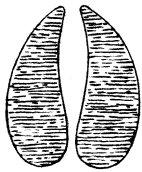
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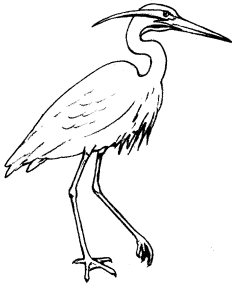
When water disappears from a glass on a hot sunny day, it is —

- F boiling
- G condensing
- H melting
- J evaporating

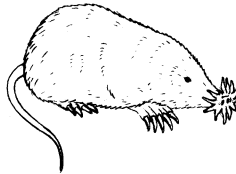
7



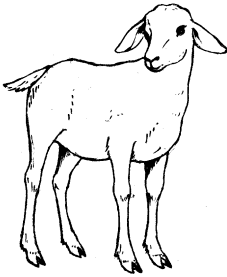
Which animal probably made this track?



A



C



B

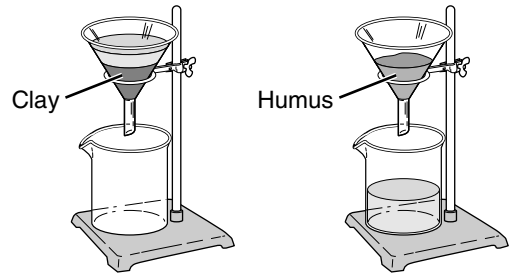


D

8 Some screwdrivers can pick up a screw just by touching it. What causes the screw to be attracted to the screwdriver?

- F Electricity
- G Gravity
- H Magnetism
- J Heat

9

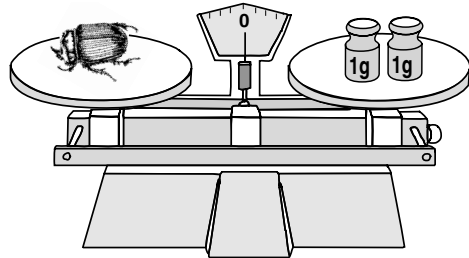


50 mL of Water Added to Each Funnel

This experiment shows that —

- A clay and humus do not hold water
- B humus holds water better than clay
- C clay holds water better than humus
- D clay and humus hold the same amount of water

10



The mass of this insect is —

- F 1 g
- G 2 g
- H 3 g
- J 4 g

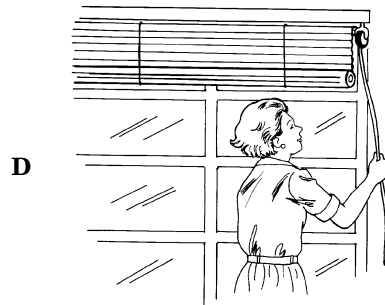
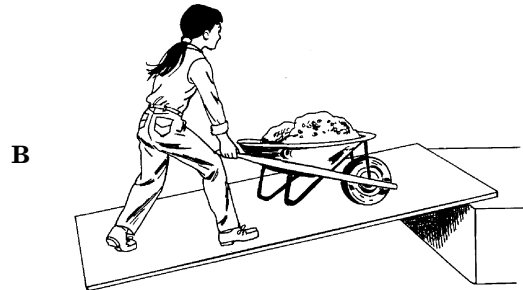
11 Which of these do people build to help stop flooding?

- A Dams
- B Streets
- C Bridges
- D Sidewalks

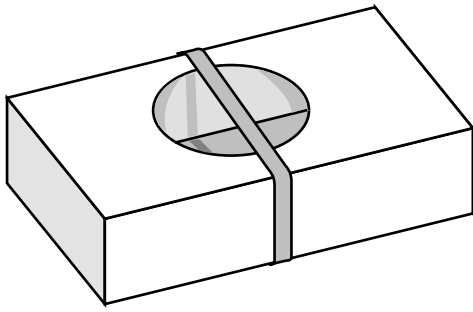
12 The stinger on a wasp is used to —

- F attract other wasps
- G carry food
- H protect the wasp
- J build its home

13 Which person is using a wedge?



14



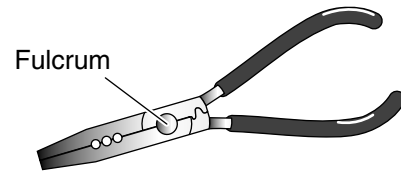
When the rubber band on the box is picked, it will —

- F move in a circle
- G vibrate back and forth
- H stay still
- J break the box

15 Which of these is more important for plants than for animals in order to live?

- A Air
- B Water
- C Sunlight
- D A place to live

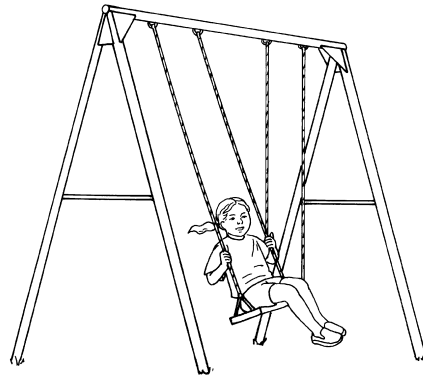
16



The picture shows a simple machine used at home and at school. Which type of simple machine is shown in the picture?

- F A pulley
- G A screw
- H A lever
- J A wedge

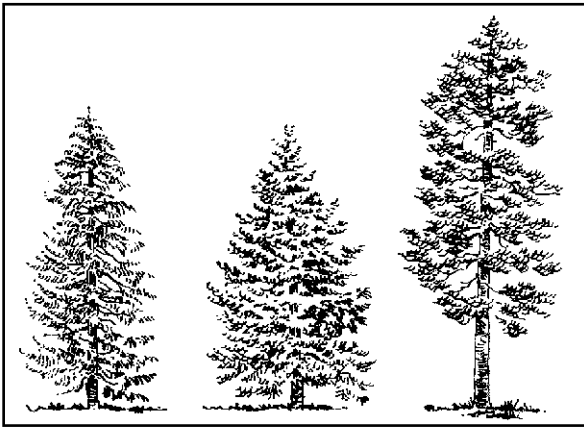
17



Which type of motion is shown by this swing?

- A Circular
- B Back and forth
- C Straight line
- D Irregular

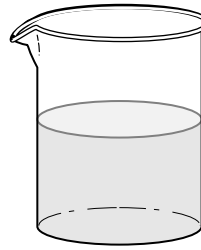
18



Which set of names best fits the two boxes?

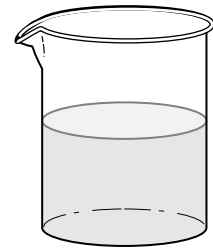
- F Roots and Stems
- G Evergreen and Deciduous
- H Edible and Nonedible
- J Flowering and Nonflowering

19 Sugar will dissolve most easily in which beaker?



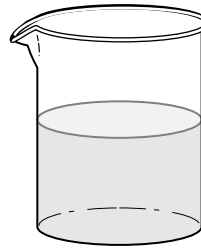
Water at 0°C

A



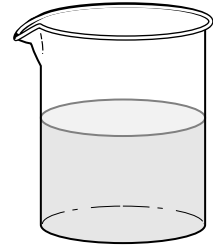
Water at 30°C

C



Water at 15°C

B



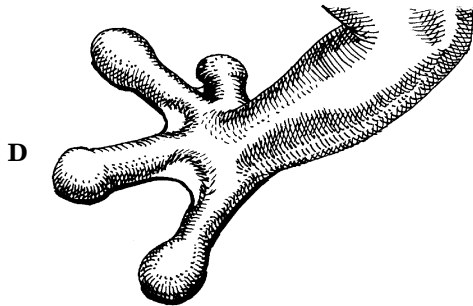
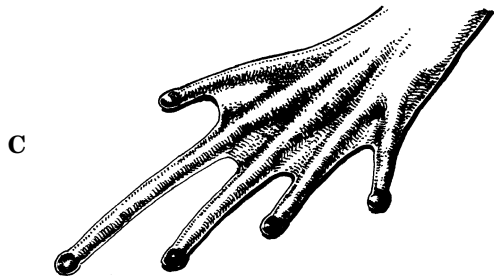
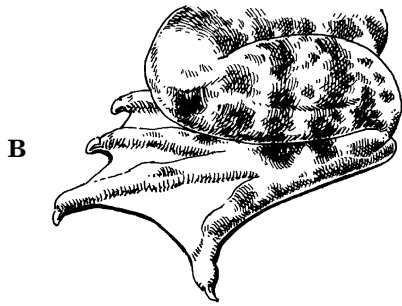
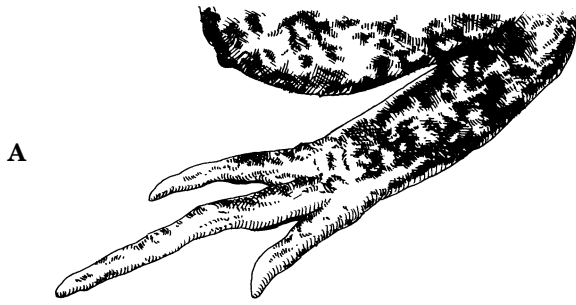
Water at 60°C

D

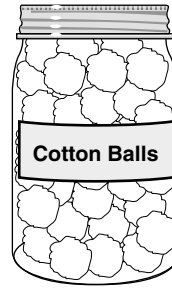
20 Which of these is caused by the turning of the Earth?

- F Day and night
- G Summer and winter
- H Moon phases
- J Stars

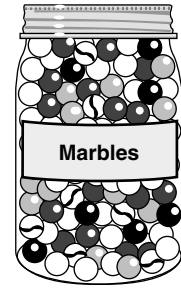
21 Which type of frog foot is best adapted for swimming?



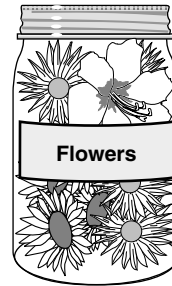
22 Which jar would have the greatest mass?



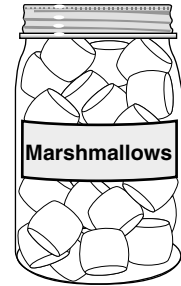
F



H

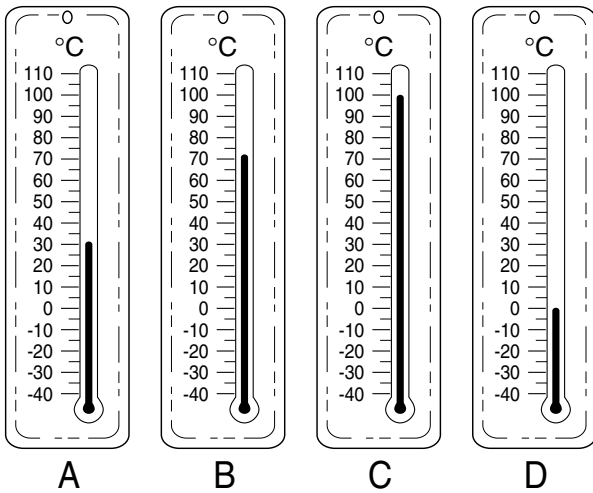


G



J

23



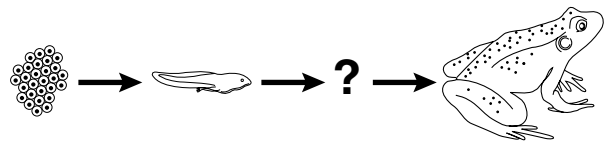
Water boils at 100°C. Which thermometer shows the temperature of boiling water?

- A A
- B B
- C C
- D D





24 Which of these becomes an apple on an apple tree?

- F A root
- G A flower
- H A leaf
- J A twig

25



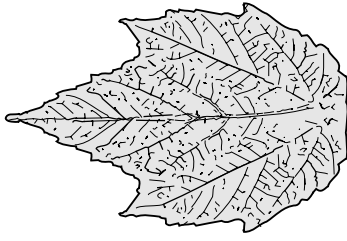
Which of the following is missing above?

- A 
- B 
- C 
- D 

26 The energy that drives the water cycle comes from —

- F tides
- G wind
- H sunlight
- J plants

27



Which of these is closest to the length of the leaf?

- A 1 cm
- B 2 cm
- C 3 cm
- D 4 cm

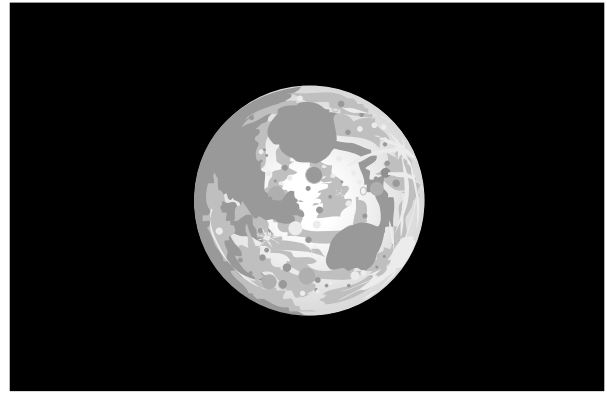
28

Average Date of the Last Frost	
Richmond	April 15
Norfolk	April 6
Abingdon	April 20
Front Royal	April 19

Based on the chart, farmers near which city would plant their crops the earliest in the spring?

- F Richmond
- G Norfolk
- H Abingdon
- J Front Royal

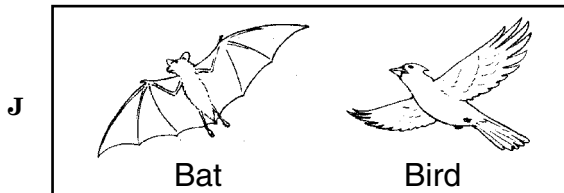
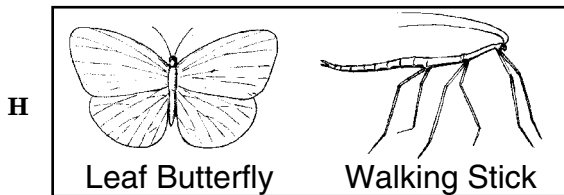
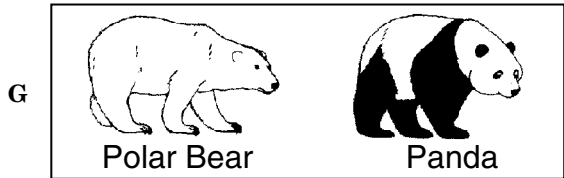
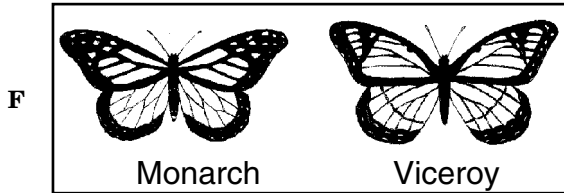
29



When the moon is seen from the Earth as a whole circle, it is called a —

- A full moon
- B crescent moon
- C new moon
- D half moon

30 Which box shows animals that depend most on camouflage for protection?



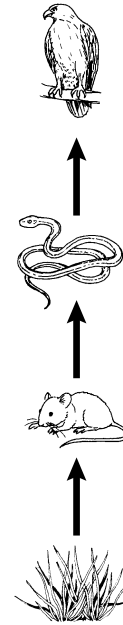
31 Which material will not dissolve in water?

- A Sugar
- B Salt
- C Baking soda
- D Sand

32 Soil helps trees because soil —

- F makes food for the trees
- G gives nutrients to the trees
- H turns the roots into new trees
- J moves the tree seeds to new places

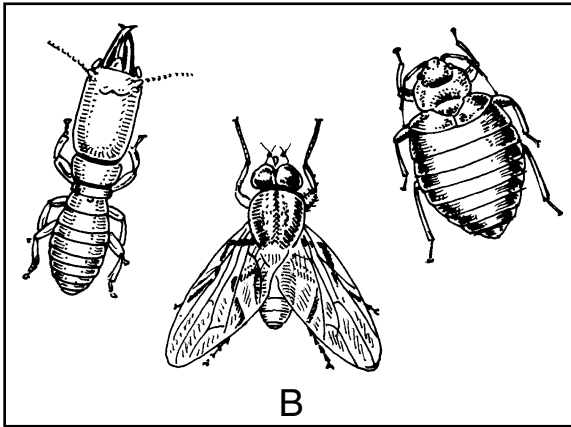
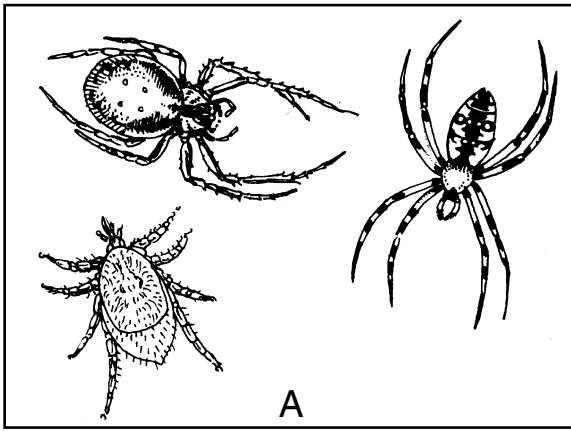
33



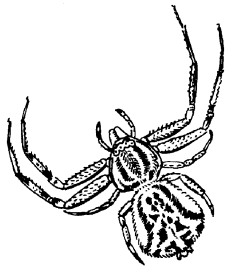
The snake in this food chain is a predator because it —

- A eats other animals
- B is eaten by the hawk
- C is the largest animal
- D eats only plants

34



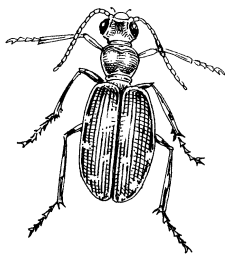
Insects have six legs and three major body parts. Which of the animals below belongs in Box B with the other insects?



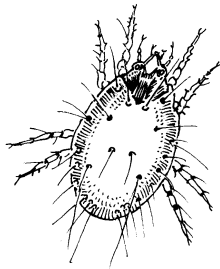
F



H



G

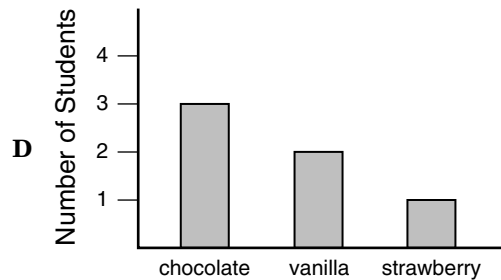
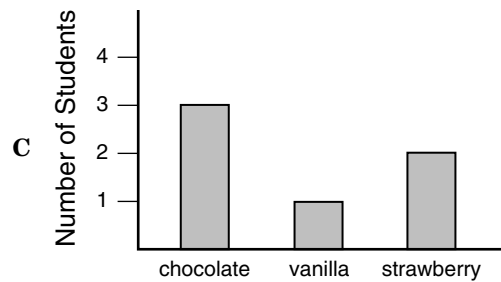
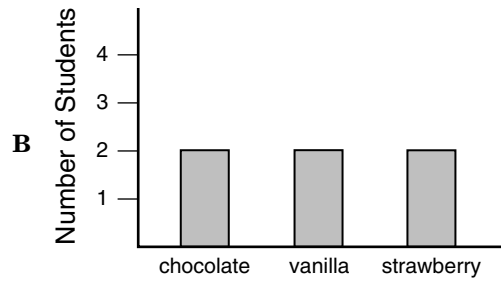
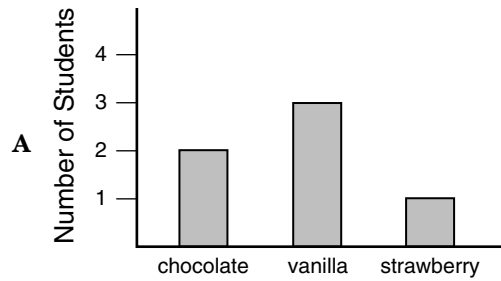


J

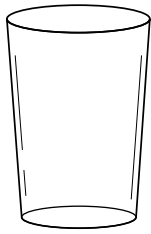
35

Student	Favorite Flavor
Joe	chocolate
Juan	vanilla
Jim	chocolate
Rose	strawberry
Sue	chocolate
Kim	vanilla

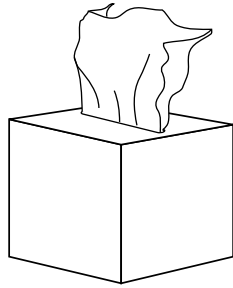
Which graph best represents the data above?



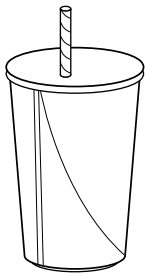
36 Which item can be used over and over again?



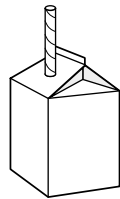
Glass
F



Tissue
H



Paper cup
G

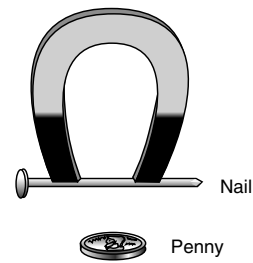


Milk carton
J

37 Flies reproduce very rapidly. Some can lay hundreds of eggs. What keeps the world from being overpopulated with flies?

- A They are too small.
- B They fly in the air.
- C Many of them are eaten.
- D Many of them migrate.

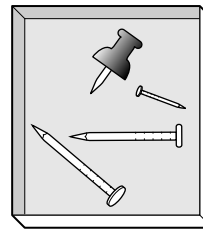
38



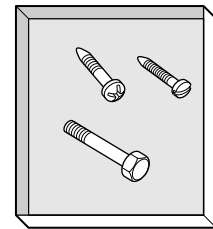
The magnet will pick up the nail but not the penny because the nail —

- F has rust on it
- G is lighter than the penny
- H has a sharp point
- J contains iron

39

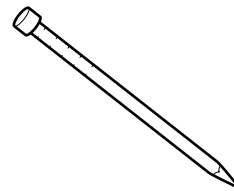


Box A

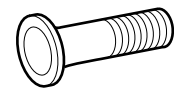


Box B

Which object below belongs in Box B?



A



C

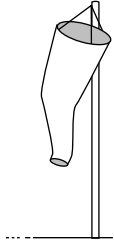


B

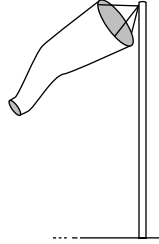


D

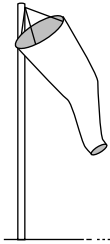
40 Which of these shows the fastest blowing wind?



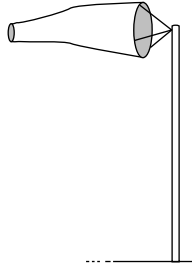
F



H



G



J

Answer Key

Test Sequence	Correct Answer	Reporting Category	Reporting Category Description
1	B	015	Scientific Investigation
2	G	016	Force, Motion, Energy, and Matter
3	A	015	Scientific Investigation
4	G	018	Earth/ Space Systems and Cycles
5	B	017	Life Processes and Living Systems
6	J	016	Force, Motion, Energy, and Matter
7	B	015	Scientific Investigation
8	H	016	Force, Motion, Energy, and Matter
9	C	018	Earth/ Space Systems and Cycles
10	G	015	Scientific Investigation
11	A	018	Earth/ Space Systems and Cycles
12	H	017	Life Processes and Living Systems
13	A	016	Force, Motion, Energy, and Matter
14	G	016	Force, Motion, Energy, and Matter
15	C	017	Life Processes and Living Systems
16	H	016	Force, Motion, Energy, and Matter
17	B	016	Force, Motion, Energy, and Matter
18	G	017	Life Processes and Living Systems
19	D	016	Force, Motion, Energy, and Matter
20	F	018	Earth/ Space Systems and Cycles
21	B	017	Life Processes and Living Systems
22	H	015	Scientific Investigation
23	C	015	Scientific Investigation
24	G	017	Life Processes and Living Systems
25	B	017	Life Processes and Living Systems
26	H	018	Earth/ Space Systems and Cycles
27	D	015	Scientific Investigation
28	G	018	Earth/ Space Systems and Cycles
29	A	018	Earth/ Space Systems and Cycles
30	H	017	Life Processes and Living Systems
31	D	016	Force, Motion, Energy, and Matter
32	G	018	Earth/ Space Systems and Cycles
33	A	017	Life Processes and Living Systems
34	G	015	Scientific Investigation
35	D	015	Scientific Investigation
36	F	018	Earth/ Space Systems and Cycles
37	C	017	Life Processes and Living Systems
38	J	016	Force, Motion, Energy, and Matter
39	C	015	Scientific Investigation
40	J	018	Earth/ Space Systems and Cycles