


GRADE 5

2016

Student Name			
Gender		Date of Birth	
Subject	SCIENCE	Student ID	N0003
School Name	TOWHEED IRANIAN SCHOOL		
Grade	05	Section	
 168-S-N0003-05-1 3051			

Science

TEST INSTRUCTIONS

FILL IN YOUR DETAILS

Turn to your ANSWER SHEET and fill in your name, school, grade, section, today's date, your date of birth and gender.

ANSWERING QUESTIONS

Go to the SCIENCE ANSWER SHEET.

This test has **40 QUESTIONS**. Each question has four possible options.

Choose the BEST answer from the four options, **A, B, C** or **D**.

FILL in ONE circle on your answer sheet with a pencil.

If you make a mistake, erase the pencil mark and fill in a different circle.

You must colour the entire circle as shown below:

Correct response



Incorrect responses



Line



Very light pencil



Pen



Colored pencil

Marks are NOT deducted for incorrect answers.

ALL ANSWERS SHOULD BE MARKED ON YOUR ANSWER SHEET ONLY.

EQUIPMENT ALLOWED IN THIS TEST

You may use a 2B or B pencil for this test. You may NOT use a dictionary for this test.

TIME ALLOWED FOR TEST

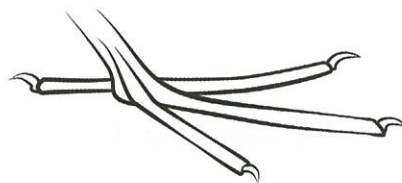
The time allowed to complete this test is **60 minutes**

Type of bird foot

How the foot looks

Used for

1



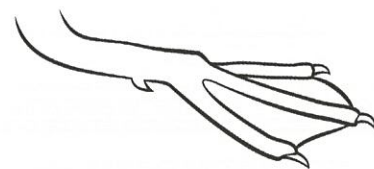
walking on mud

2



holding onto prey

3



swimming

4



holding onto branches

- 1 Hawks hunt small animals for food.
Which type of feet do hawks have?

A
Type 1

B
Type 2

C
Type 3

D
Type 4

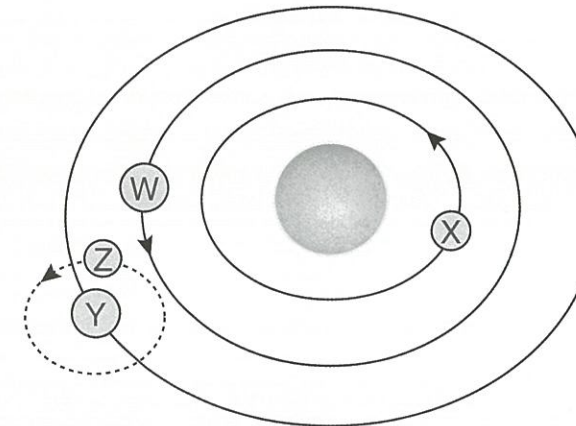
- 2 What is true for a bird that has Type 3 feet?

- A** It cannot fly.
- B** It spends time in water.
- C** It lives in the mountains.
- D** It does not lay eggs in a nest.

- 38 Which of these is a non-contact force?

- A** a man pushing a door
- B** an apple falling from a tree
- C** water turning a water wheel
- D** a train engine pulling train coaches

The picture shows four objects (W, X, Y, Z) moving around the Sun.



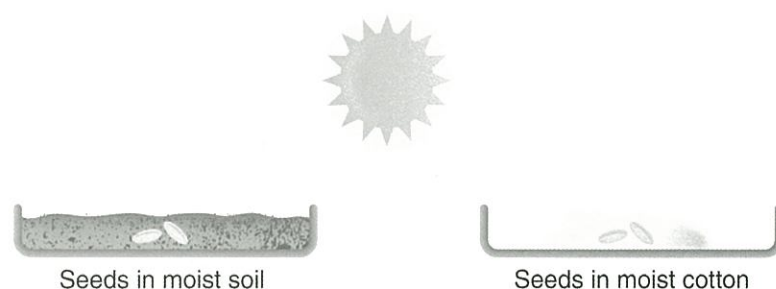
- 39 Which object is a moon?

- A** object W
- B** object X
- C** object Y
- D** object Z

- 40 Which statement is true?

- A** Z is the hottest of the four objects.
- B** X is the closest object to the Sun.
- C** Object W has the longest orbit.
- D** Object Y has the shortest orbit.

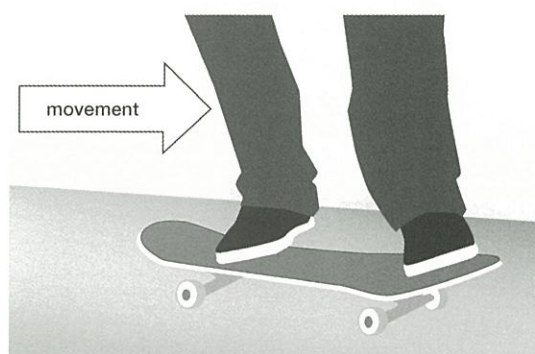
Two bean seeds are placed in two glass dishes.
One dish contains moist soil. The other dish contains moist cotton.



35 Which question can be answered from this experiment?

- A** Do seeds need soil to germinate?
- B** Can seeds germinate in a glass dish?
- C** Do seeds need sunlight to germinate?
- D** How many seeds can germinate at one time?

A boy is riding a skateboard.



36 What force acts between the wheels and the ground?

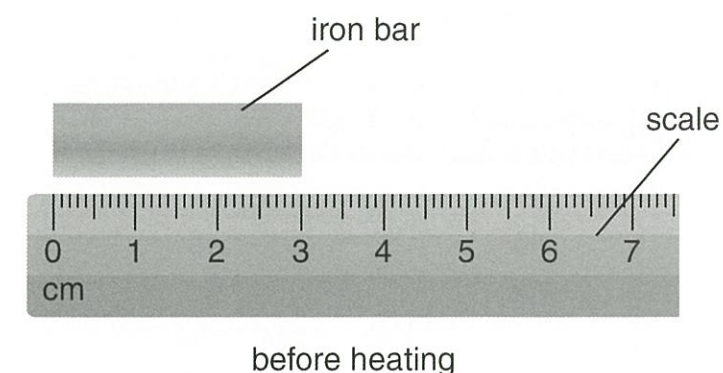
- | | | | |
|----------|----------|--------------|-----------|
| A | B | C | D |
| electric | friction | air pressure | magnetism |

37 Four children use the same skateboard.

Which child can move the skateboard using the smallest pushing force?

- | | | | |
|---------------|---------------|---------------|---------------|
| A | B | C | D |
| a 20-kg child | a 30-kg child | a 40-kg child | a 50-kg child |

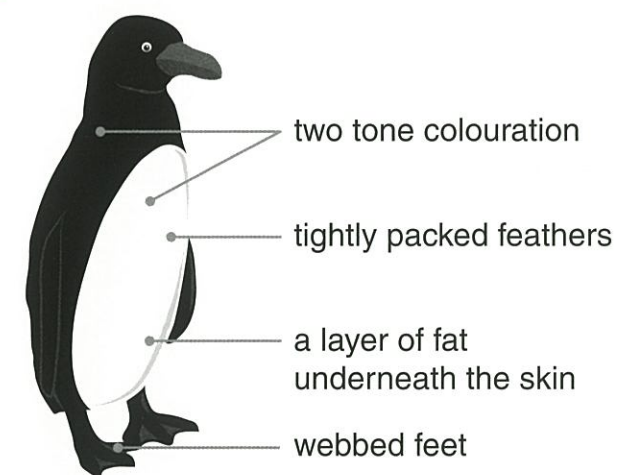
3 This iron bar is heated until it is red hot.



What is the length of the iron bar after heating?

- A** 2.2 cm
- B** 2.5 cm
- C** 3.0 cm
- D** 3.2 cm

4 All penguins have the features shown in the diagram.



Which features help to keep the penguin warm as it swims?

- A** feathers and fat only
- B** colouration and feathers only
- C** colouration, feathers and fat only
- D** colouration and webbed feet only

A girl dropped four different balls onto a surface from the same height. She did this three times and measured how high the balls bounced each time.

	Bounce height of the balls (cm)		
	Trial 1	Trial 2	Trial 3
Tennis ball	39	38	50
Golf ball	41	43	43
Cricket ball	39	38	37
Basketball	33	31	32

5 Which trial result was most likely to be an error?

- A Tennis ball, Trial 3
- B Golf ball, Trial 2
- C Cricket ball, Trial 1
- D Basketball, Trial 2

6 The girl drops each ball for a fourth time. Which ball is likely to bounce the highest?

- A Tennis ball
- B Golf ball
- C Cricket ball
- D Basketball

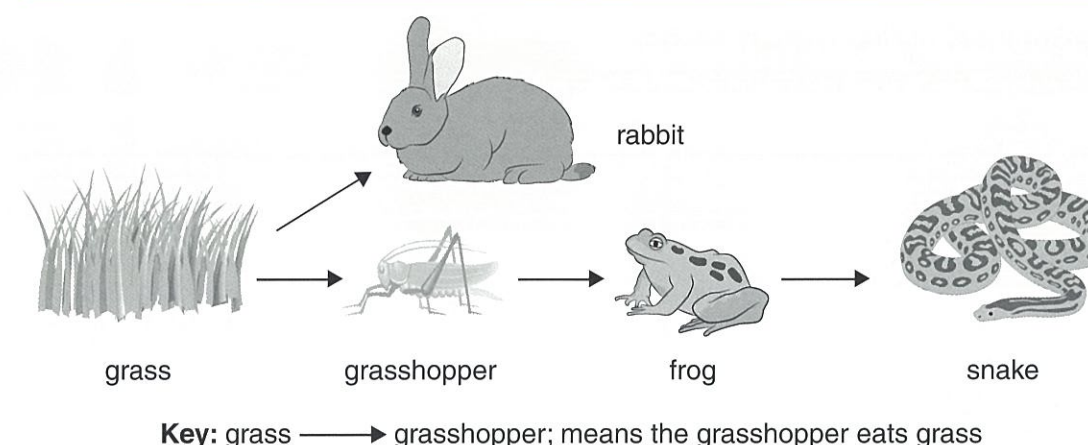
7 Balls roll a shorter distance on grass than on a tiled floor. What causes the balls to roll less on grass?

- A gravity
- B friction
- C magnetism
- D electricity

32 Why do butterflies land on flowers?



- A to lay eggs
- B to collect nectar
- C to give food to the plant
- D to help the flowers open up



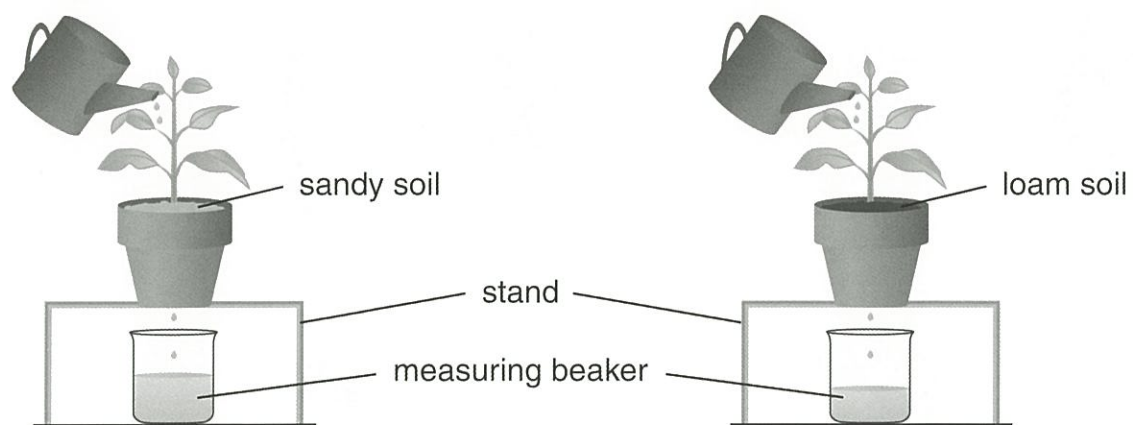
33 Look at the food chain above. What does the snake eat?

- A grass
- B frogs
- C rabbits
- D grasshoppers

34 Which animals in the food chain eat the same food?

- A frog and rabbit
- B frog and snake
- C snake and rabbit
- D grasshopper and rabbit

A student has two plants.
Each pot contains a different soil.
The student adds the same amount of water to each pot.
He then measures the amount of water collected in the beakers after two hours.



30 What is the student trying to find?

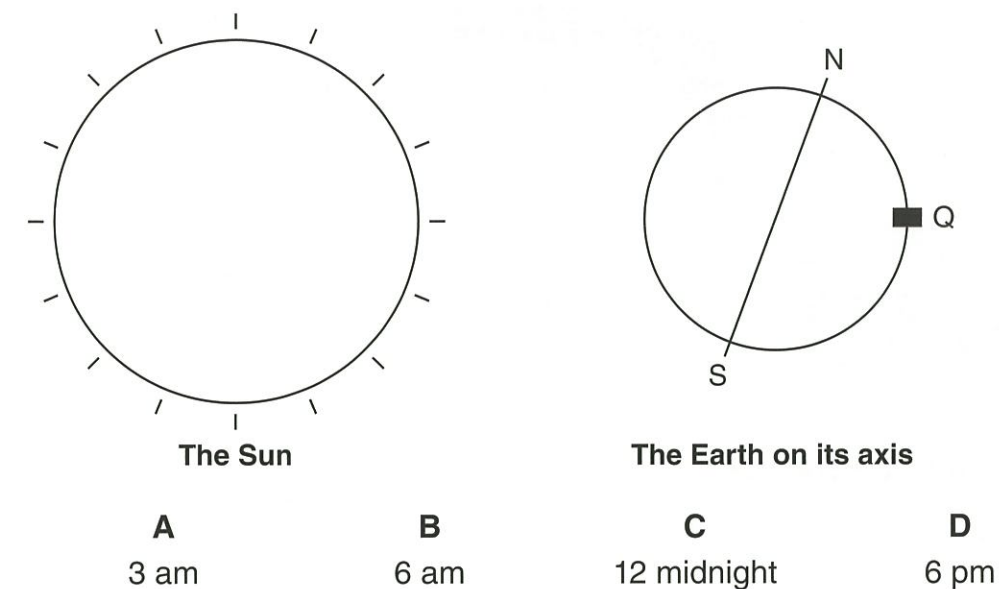
- A which soil the plant grows best in
- B how much water each plant needs
- C how much water is absorbed by roots
- D which soil holds the most water

31 What must be kept the same for this test to be fair?

Choose the correct row.

	Amount of soil	Type of plant	Size of plant
A	no	no	yes
B	yes	yes	yes
C	yes	no	yes
D	no	yes	yes

8 In this diagram, what time is it most likely to be at Point Q?



9 What causes day and night?

- A the movement of the Earth around the Sun
- B the movement of the Earth around its axis
- C the movement of the Sun around the Earth
- D the movement of the Earth around the planets

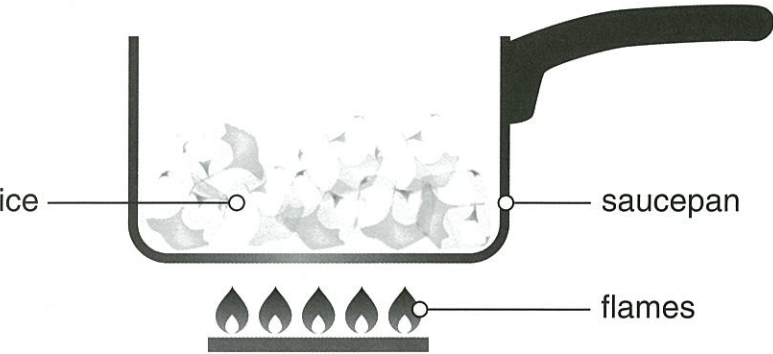
10 How would germinating after a flood help a seedling to survive?

- A All other plants are drowned.
- B The water cools the ground.
- C The water washes away pollution.
- D The ground is damp for a long time.

11 The seeds of one type of plant will germinate after being heated in an oven.
Which natural event will help this plant germinate?

- A flooding
- B fire
- C cold
- D darkness

Some ice is placed in a saucepan and heated.



12 What happens first to the ice?

- A It melts.
- B It boils.
- C It cools down.
- D It changes to steam.

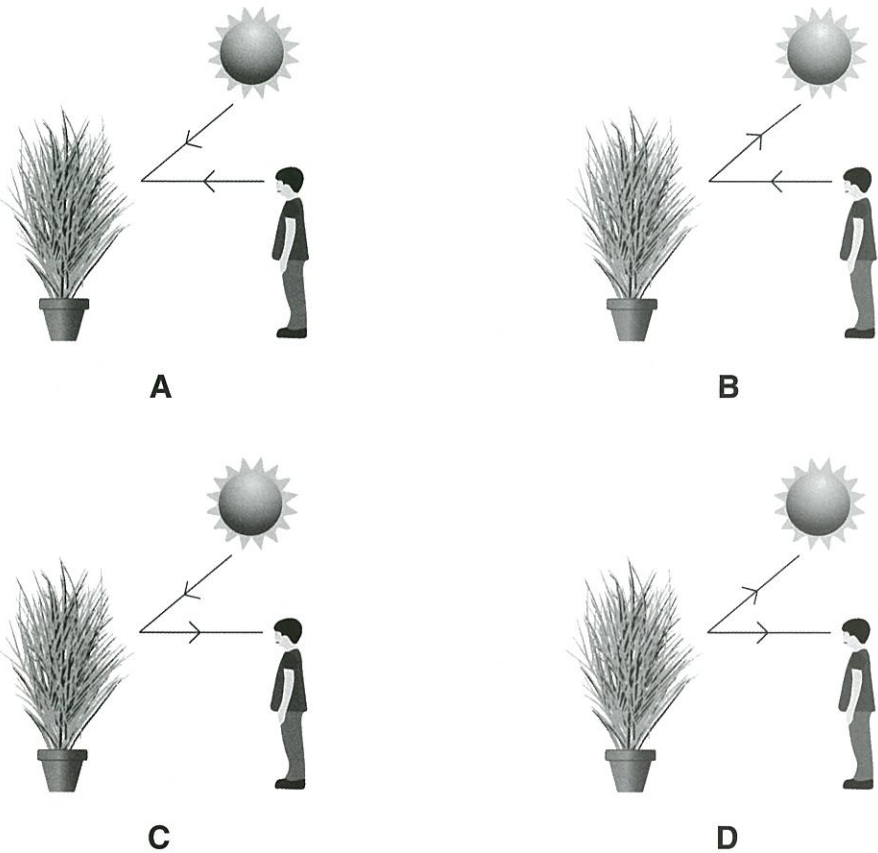
13 You want to know if small amounts of water heat faster than large amounts of water. To test this, you need to keep changing the

- A shape of the saucepan.
- B colour of the saucepan.
- C amount of water in the saucepan.
- D material the saucepan is made from.

14 What can you do to make the experiment safer? Choose the correct row.

	Wear heat proof gloves	Wait until the water has cooled before removing it	Put your finger in the water to check the temperature
A	yes	no	no
B	yes	yes	no
C	no	yes	yes
D	no	no	yes

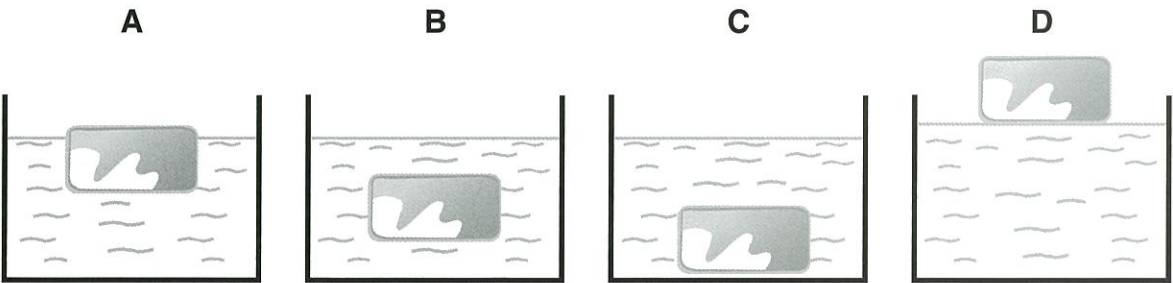
27 Which picture shows how the boy sees the plant?



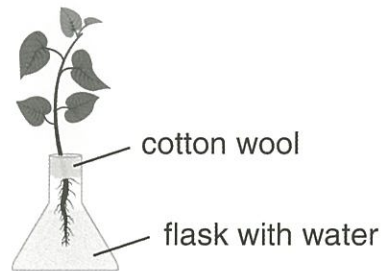
28 Why do leaves look green?

- A The leaves contain tiny green lights.
- B The leaves produce green light.
- C The leaves reflect green light.
- D The leaves absorb green light.

29 Which picture best shows how an ice block floats in water?



A student wants to see if plants lose water through their leaves. She puts a growing plant in a sealed flask containing water. She notes the change in the amount of water in the flask.



25 How can the student be sure that the plant loses water through its leaves?

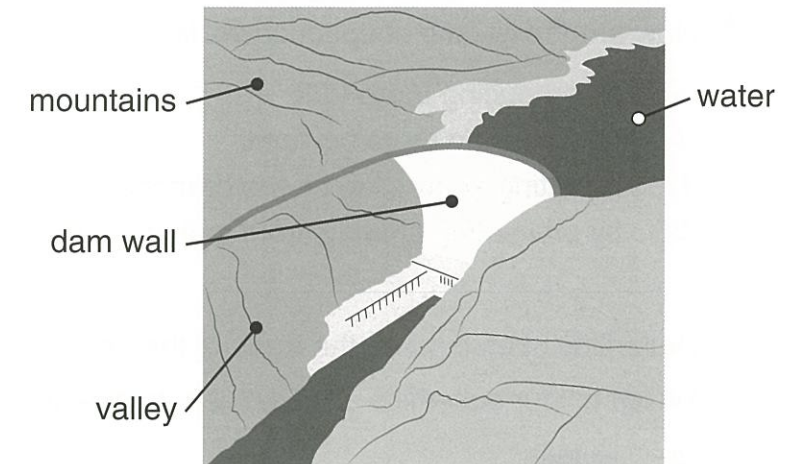
- A** repeat the same experiment
- B** repeat the experiment with soil in the flask
- C** repeat the experiment with a different plant
- D** repeat the experiment using a plant without leaves

26 Why did the student seal the mouth of the flask?

- A** to keep the stem dry
- B** to hold the stem straight
- C** to stop insects falling into the flask
- D** to stop water evaporating from the flask

15 Which of these things in the picture has been man-made?

- A** the water
- B** the valley
- C** the mountains
- D** the dam wall

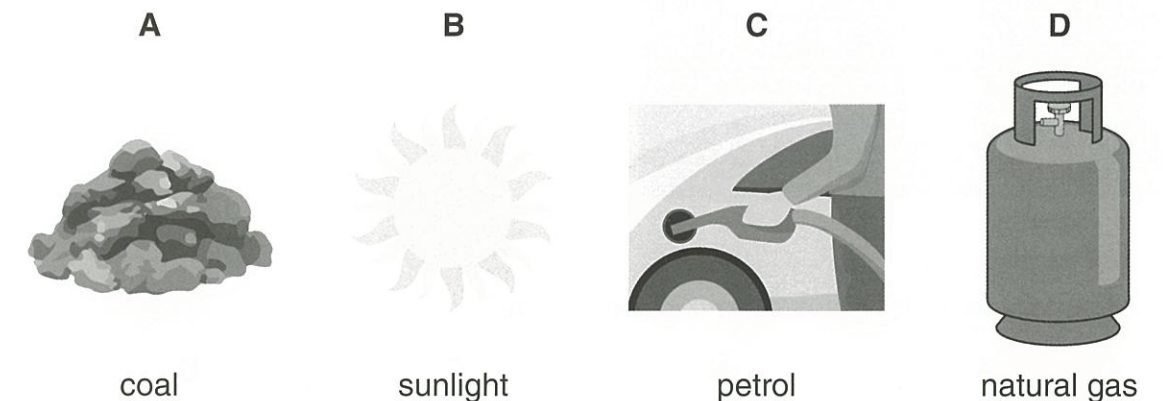


16 Electric power lines go from the dam to a city.

Which of these conclusions can be made?

- A** Electric power is used to heat the dam water.
- B** The dam water is used to make electricity.
- C** The electric power is needed to light up the dam.
- D** There are many factories around the dam.

17 Which of these is a renewable energy source?

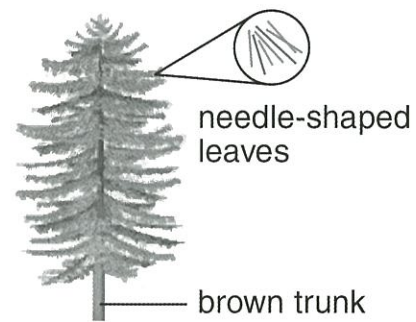


18 Which of these is most likely to have created a valley?

- A** rainfall
- B** strong winds
- C** cutting of trees
- D** fast flowing river

19 How are the needle-shaped leaves likely to help the plant?

- A by producing more fruit
- B by collecting more sunlight
- C by letting snow slide off the branches
- D by preventing animals from eating the plant



20 Butterflies often land on the trunk of the tree.

Which colour butterflies are best able to hide from predators?

- A yellow
- B brown
- C white
- D orange



21 What type of landform is shown in the picture?

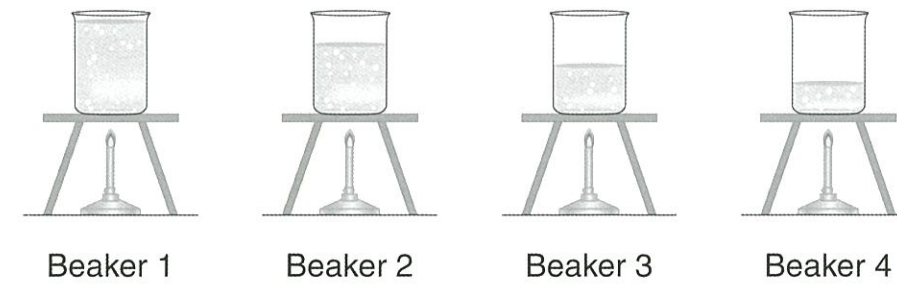
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|----------|----------|----------|----------|
| A | B | C | D |
| cliff | dune | gully | valley |

22 What created the landform in the picture?

- | | | | |
|----------|----------|----------|-----------|
| A | B | C | D |
| wind | water | humans | volcanoes |

Four beakers that contain water are heated.

Beaker 1 contains the most water and Beaker 4 the least water.



23 In which beaker will the water boil first?

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

24 What happens when water is heated?

- A Water gains energy.
- B Water loses energy.
- C Water changes colour.
- D Water changes into a solid.