

*Ministry of Education & Human Resource Development*

*Vocational Training & National Excellence*

*Commonwealth of Dominica*

***Grade 6***

***National Assessment***

***May 30, 2025***

**TIME: 75 Minutes**

**DO NOT TAKE THIS PAPER OUT OF THE EXAMINATION ROOM**

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***Science & Technology***

SCIENCE AND TECHNOLOGY

INSTRUCTIONS

READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING THE TEST.

1. THIS PAPER CONTAINS **FIFTY (50)** ITEMS.
2. YOU HAVE **SEVENTY-FIVE (75) MINUTES** TO COMPLETE THIS PAPER.
3. FOR EACH ITEM, **SHADE** THE LETTER ON THE ANSWER SHEET THAT CORRESPONDS TO THE ANSWER YOU HAVE CHOSEN.
4. USE A PENCIL TO SHADE IN THE CORRECT ANSWER.
5. IF YOU ARE UNABLE TO ANSWER A QUESTION, LEAVE IT AND MOVE ON TO THE NEXT QUESTION. YOU WILL RETURN TO IT LATER IF THERE IS AVAILABLE TIME.

EXAMPLE:

1. Which object is **MOST LIKELY** to float in a container of water?  
A. leaf  
B. key  
C. pen  
D. coin

The correct answer is leaf, letter A. On your answer sheet you shade:



B.

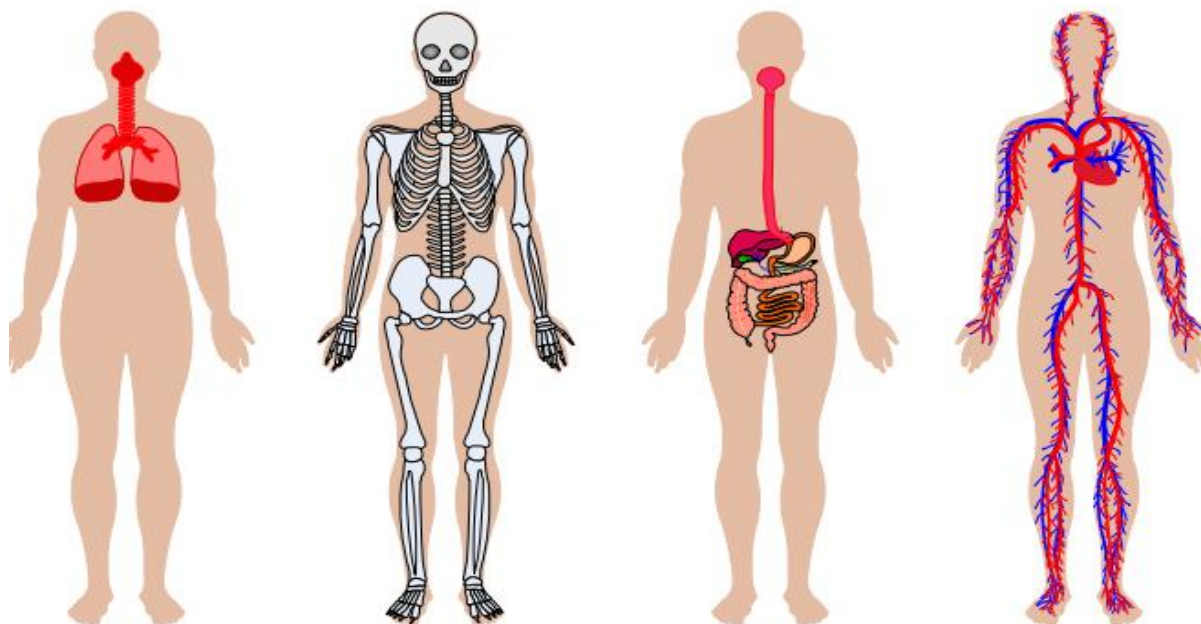
C.

D

If there is a need to change your answer, erase then shade your new answer.

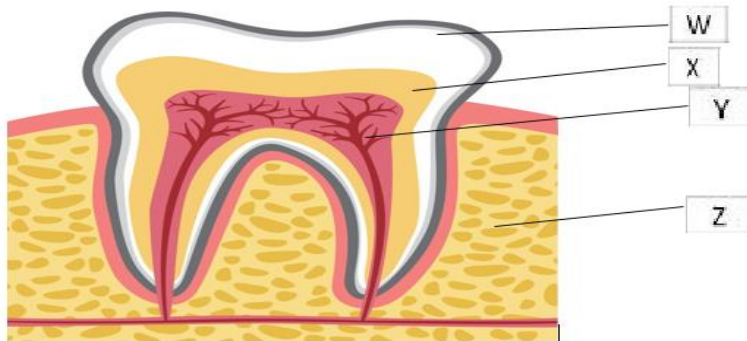
**SECTION 1: LIFE SCIENCE**

**Study the image below to respond to Item 1.**

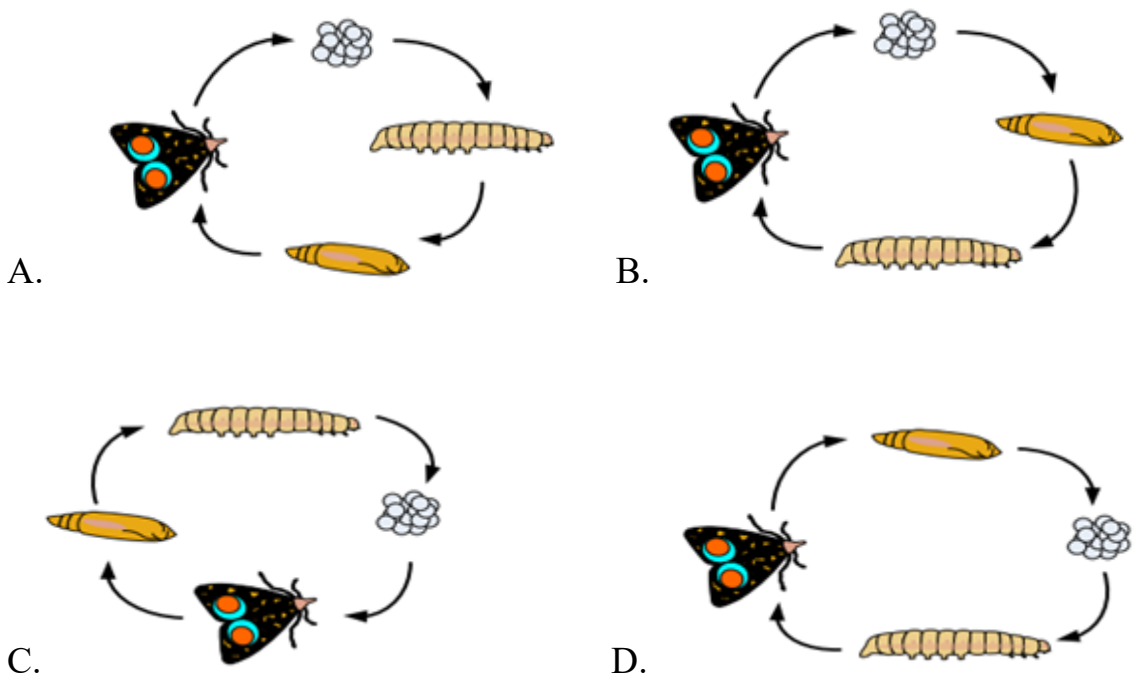


1. Which option shows the **correct** order from **left to right** of the body systems above?
- A. Digestive, Skeletal, Respiratory, Circulatory
  - B. Circulatory, Skeletal, Respiratory, Digestive
  - C. Respiratory, Skeletal, Digestive, Circulatory
  - D. Respiratory, Circulatory, Digestive, Skeletal

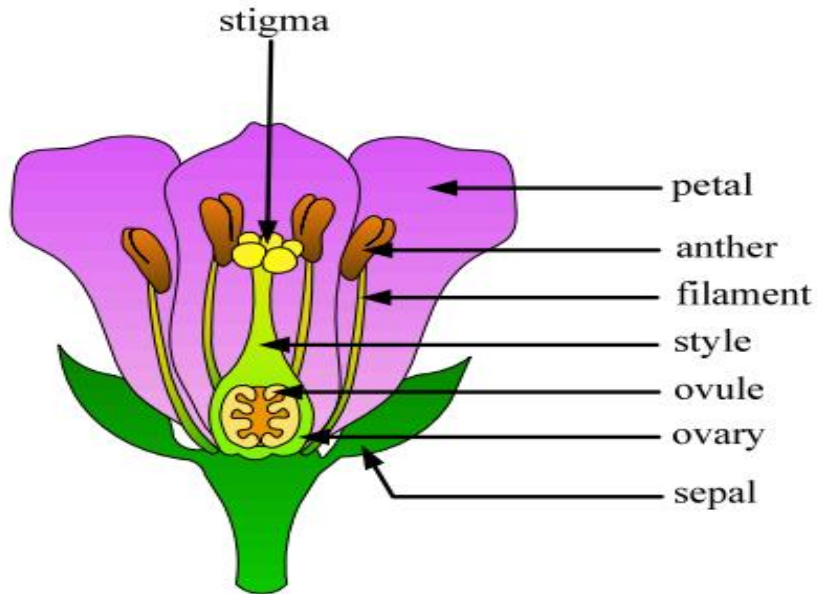
2. In the diagram below, the part of the tooth that is responsible for sensing pain and temperature is labeled as



- A. W  
 B. X  
 C. Y  
 D. Z
3. Which one of the following diagrams shows the correct order of the changes in the life cycle of a butterfly?



Study the image of the flower below to respond to Items 4 & 5.



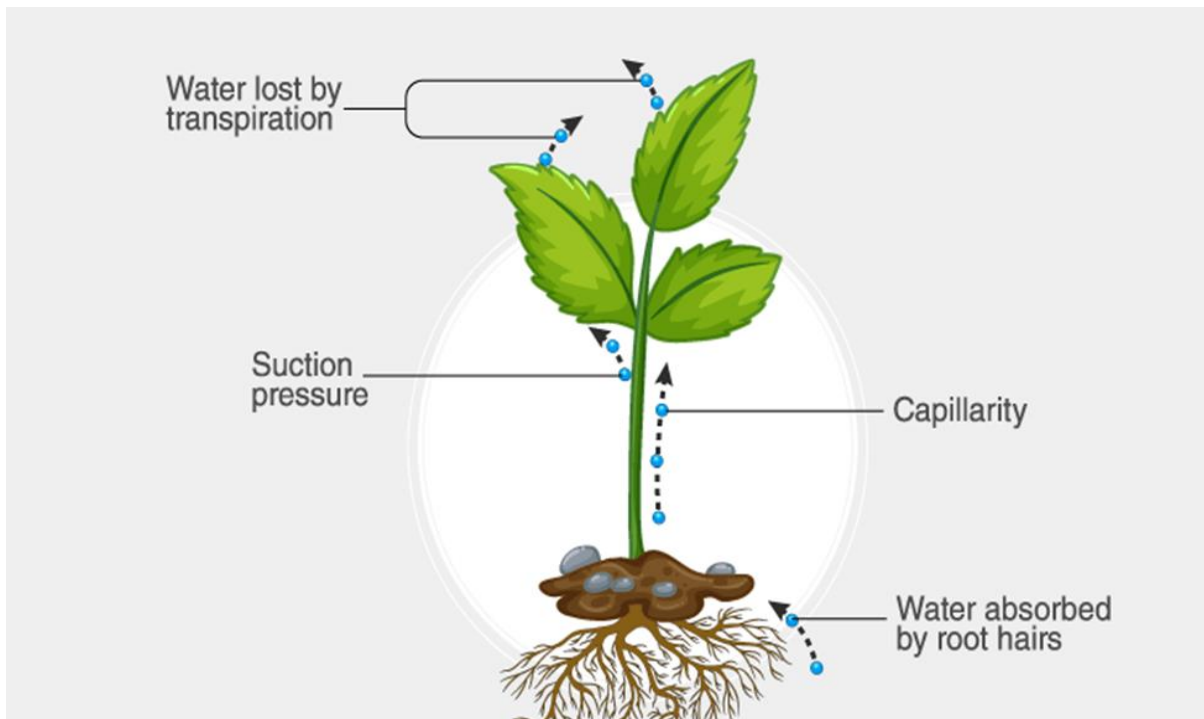
4. The **male** part of the flower is made up of the

- A. petal and anther
- B. stigma and style
- C. anther and filament
- D. petal and sepal

5. The **MAIN** function of the style is to

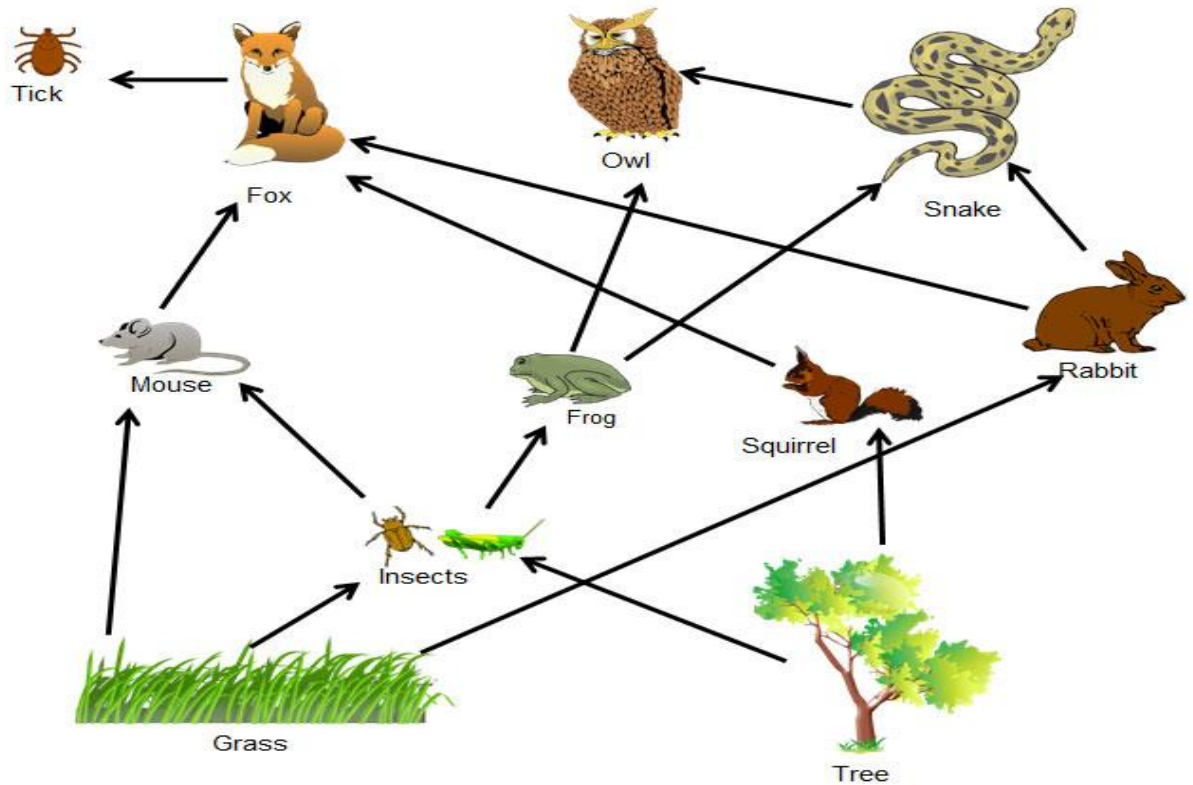
- A. produce pollen.
- B. allow pollen to travel to the ovary.
- C. connect the stigma to the anther.
- D. attract pollinators.

**Study the process below to respond to Item 6**



6. This process helps plants to
- A. produce energy
  - B. release oxygen into the atmosphere
  - C. take in carbon dioxide
  - D. draw minerals from the soil
7. A group of organisms of the same species inhabiting a particular area is referred to as a
- A. population
  - B. community
  - C. ecosystem
  - D. environment

Study the food web below to respond to Items 8 & 9.



8. Which organisms in the food web are producers?
- insects and frogs
  - grass and tree
  - rabbit and mouse
  - fox and snake
9. Which of the following is **NOT** a food chain in the web above?
- grass → mouse → fox → tick
  - grass → insects → frog → owl
  - tree → squirrel → fox → tick
  - tree → rabbit → snake → owl

10. Which of the following statements is **CORRECT**?
- A. Omnivores can eat all types of consumers
  - B. Herbivores can eat all types of consumers
  - C. Consumers can eat only producers
  - D. Carnivores can eat only producers
11. A factory releases waste into a river, causing the death of aquatic plants and fish. What is the **MOST LIKELY** chain reaction in the ecosystem?
- A. Fish populations increase
  - B. Bird populations decrease
  - C. Fish populations stay the same
  - D. water becomes more oxygen rich
12. The **GENERAL** purpose of an animal's adaptation is to
- A. improve its ability to reproduce.
  - B. help it survive and thrive in its environment.
  - C. help it communicate with other animals.
  - D. make it more attractive to predators.
13. Which type of adaptation **BEST** describes birds migrating to a warmer climate during colder months?
- A. Physiological
  - B. Camouflage
  - C. Behavioural
  - D. Mimicry

Study the plant below to respond to Item 14.



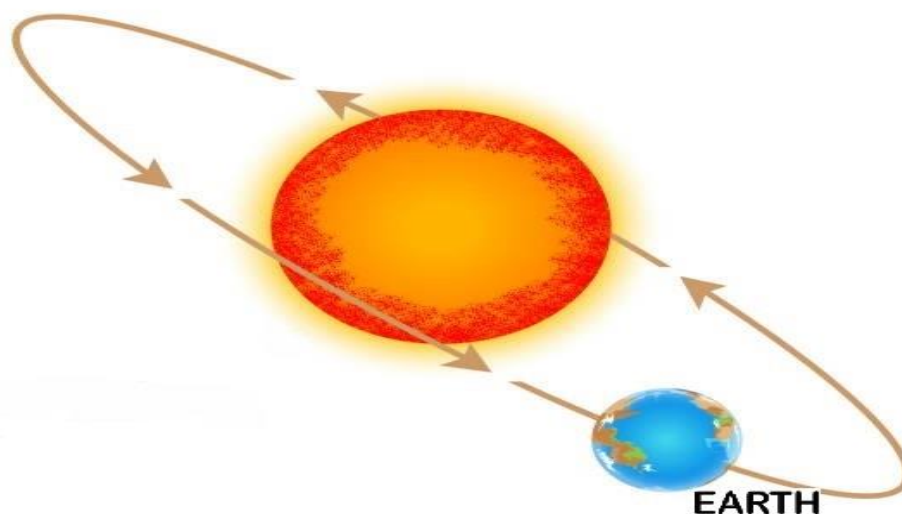
14. What structural adaptation helps the cactus plant in the environment shown?
- A. thick, fleshy stems to store water
  - B. bright flowers to attract pollinators
  - C. many leaves to release water
  - D. the ability to move during the night
15. Which of the following behaviours is **correctly** matched to its type of **symbiotic** relationship?

	<b>Adaptation</b>	<b>Type</b>
A.	A spider building a web on a tree	Parasitism
B.	Pollination of flowers by animals	Commensalism
C.	A jack fish harming a shark by eating its food	Neutralism
D.	A clownfish gaining shelter from corals while protecting it from predators	Mutualism

**SECTION 2: EARTH AND SPACE**





16. The main force that holds the solar system together is referred to as
- A. magnetism
  - B. gravity
  - C. nuclear force
  - D. electromagnetic force

17. Which of the following statements **BEST** describes the image below?

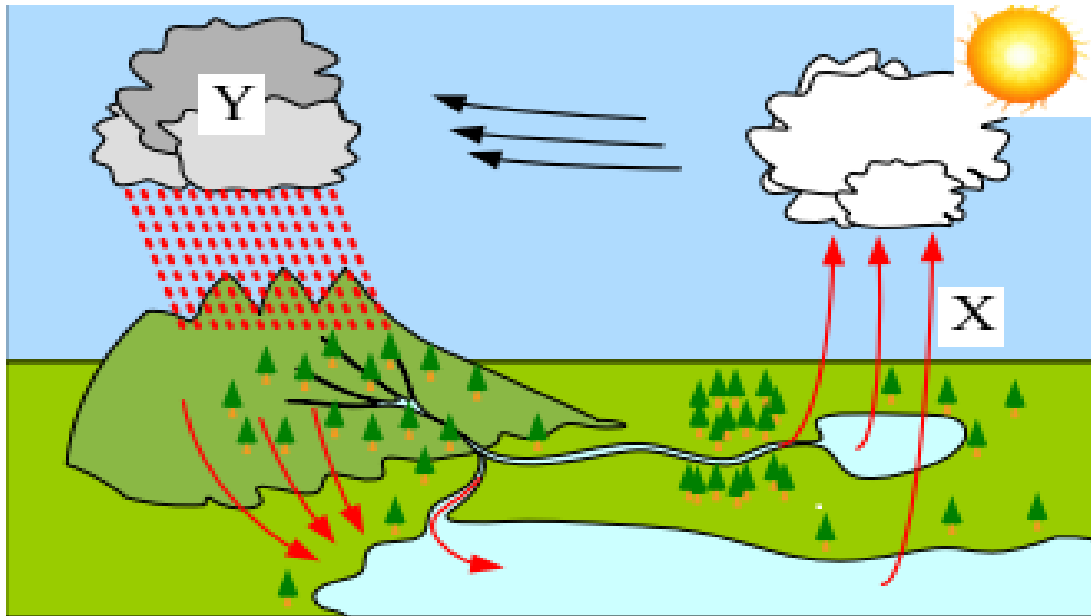


- A. The moon blocking sunlight
  - B. Earth rotating around the sun
  - C. Earth revolving around the sun
  - D. The earth revolving around the moon
18. Wind can be described as air that is
- A. still.
  - B. moving.
  - C. formed in the north.
  - D. always strong.

19. Which of the following weather instruments is matched **CORRECTLY** to its use?

A.		Measures Temperature
B.		Measures Air Pressure
C.		Measures Humidity
D.		Measures Wind Speed

Use the diagram of the water cycle below to respond to Items 20 and 21.



20. Process Y shows that clouds
- form when water vapor condenses in the atmosphere, storing water before precipitation.
  - absorb water from the ocean and release it directly as rain.
  - are formed by evaporation and hold water permanently in the atmosphere.
  - are responsible for converting liquid water into water vapor
21. Which of the following is **UNTRUE** about the process X?
- Helped by wind
  - Needs heat
  - Only happens at 100 °C
  - Can be reversed

22. When we conserve natural resources, we are expected to use
- A. only man-made resources.
  - B. only natural resources.
  - C. resources without limits
  - D. natural resources wisely.

Study the image below to respond to Item 23.



23. The rocks shown in the image are formed from
- A. cooling of magma.
  - B. heat and pressure inside the earth.
  - C. compact layers of organic material.
  - D. molten material.

24. Which of these is a **benefit** of afforestation?

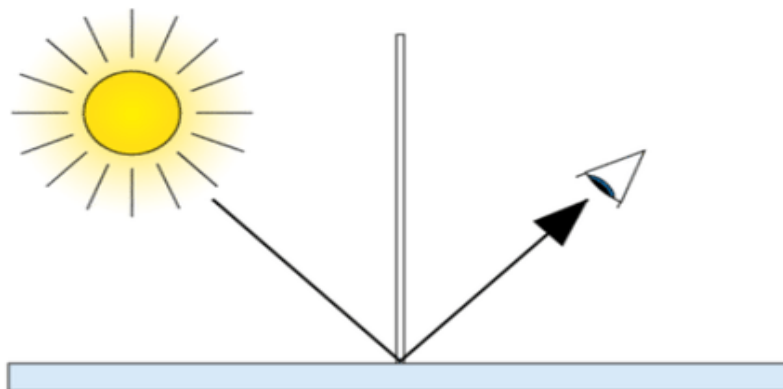


- A. increased soil erosion
- B. cleaner air, reduced carbon dioxide
- C. removal of wildlife from forests
- D. make land useless for farming

25. Which of the following actions is a way to **reduce** paper waste?
- A. printing on both sides of a sheet
  - B. printing extra copies of documents
  - C. using more disposable paper cups
  - D. throwing away unused paper





**SECTION 3: PHYSICAL SCIENCE**

26. When a ray of light shines on a smooth, hard surface such as a mirror, it bounces off as shown below. This process is called



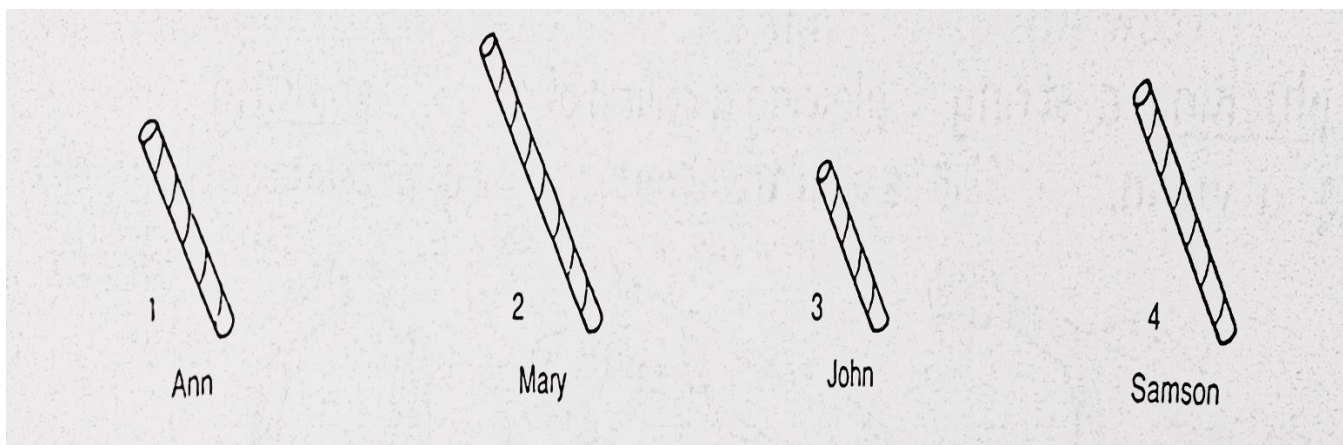
- A. refraction
- B. radiation
- C. resistance
- D. reflection

27. Which one of the following does **NOT** show the correct energy change for the item shown in each picture?

A	electrical	→	light	
B	electrical	→	sound	
C	electrical	→	kinetic	
D	electrical	→	sound	

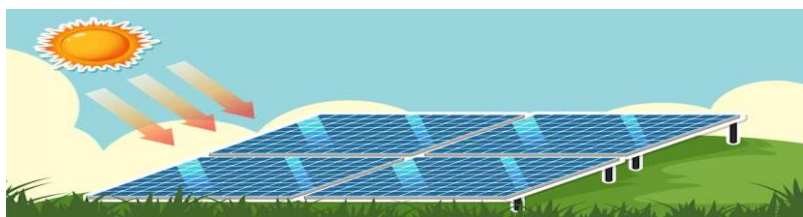
Study the image below to respond to Item 28.

28. Some friends made some straw whistles and blew them. In which order should they blow to produce pitches that gradually **lower**?

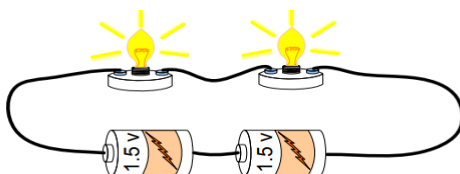


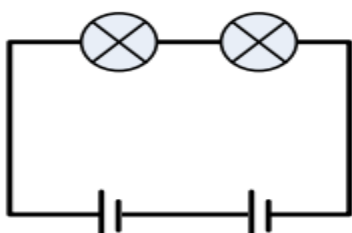
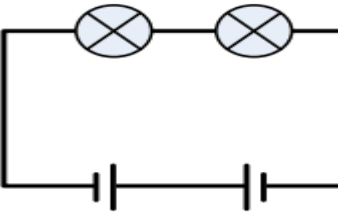
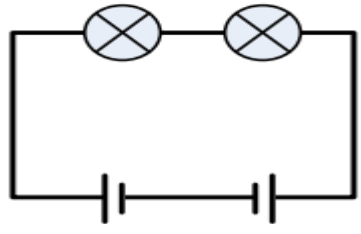
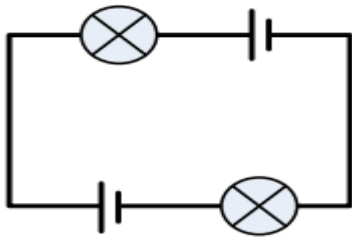
- A. 4, 3, 1, 2
- B. 4, 3, 2, 1
- C. 3, 1, 4, 2
- D. 2, 4, 1, 3

29. Which of the following statements **BEST** explains why solar panels such as those shown in the picture below work on a sunny day?

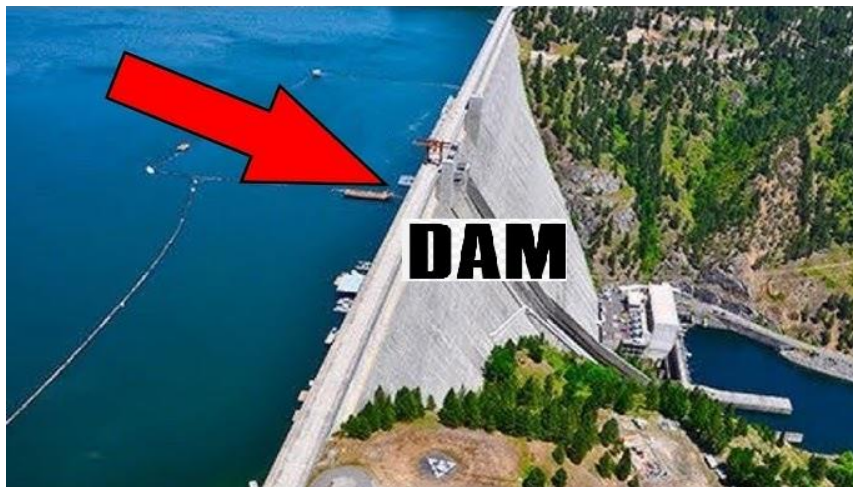


- A. Heat energy is absorbed from the air to create electricity.
  - B. Sunlight is converted into electrical energy.
  - C. Light energy is stored for later use.
  - D. Sunlight is reflected to power nearby devices.
30. The diagram below shows electrical components arranged in a circuit. Which of the following shows the **correct** circuit diagram for this arrangement?.



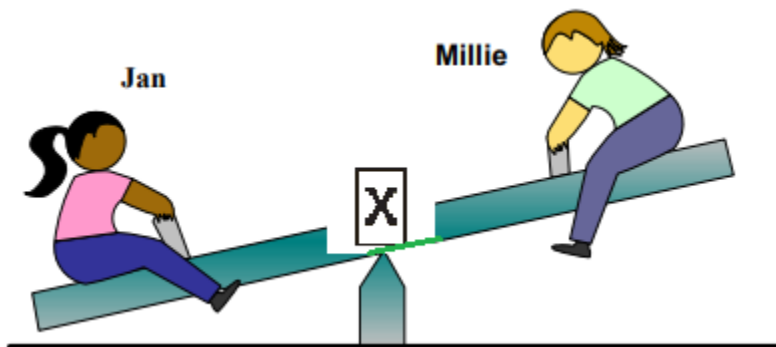
- A. 
- B. 
- C. 
- D. 

31. A dam holds water at a height. As a result, the water has \_\_\_\_\_ energy.



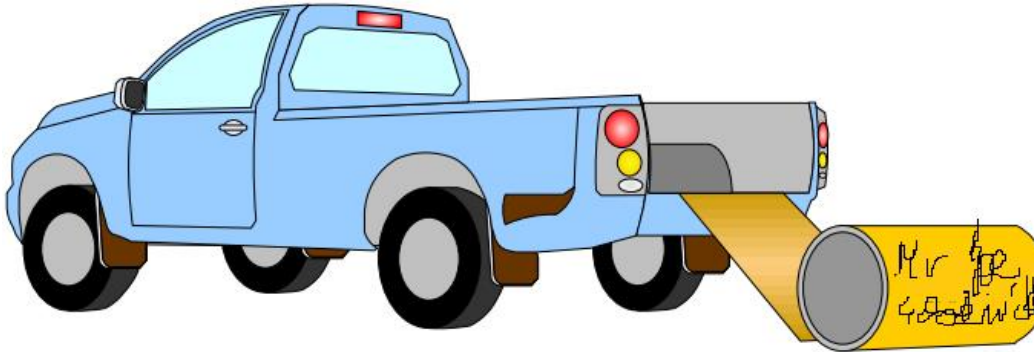
- A. thermal
- B. potential
- C. chemical
- D. static

32. In the diagram below the name given to the part labelled 'X' is called the



- A. effort
- B. load
- C. pivot
- D. weight

33. Mr. Joe wants to lift his barrel onto a truck. He decides to roll it up a plank of wood onto the truck. What simple machine is he using?



- A. inclined plane
  - B. screw
  - C. wedge
  - D. wheel and axle
34. A student used a bar magnet to pick up some metal tacks as seen below.



Based on observations, the student could conclude that

- A. the strength of the magnet depends on the material it attracts.
- B. tacks are attracted to the ends of magnets only.
- C. the magnet is stronger at its poles
- D. magnets can attract only tacks.

35. In the diagram below, useful friction is created by the

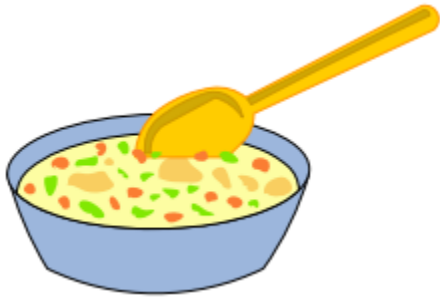


- A. spokes
- B. brake
- C. handlebars
- D. valve

36. Which state of matter has a definite volume but **NO** definite shape?

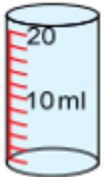


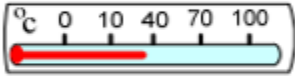
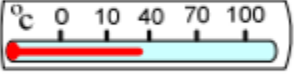

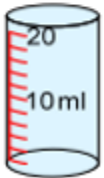

- A. solid
- B. liquid
- C. gas
- D. plasma

37. The wooden spoon is good for stirring hot soup because it



- A. gradually gets hot.
- B. absorbs the hot soup.
- C. conducts heat away from the hand.
- D. insulates the hand from the heat.

38. Monty wants to measure the **volume** of some water and **mass** of an object. Which two instruments should he use?

A.	 <span style="margin: 0 10px;">and</span> 
B.	 <span style="margin: 0 10px;">and</span> 
C.	 <span style="margin: 0 10px;">and</span> 
D.	 <span style="margin: 0 10px;">and</span> 

39. Which of the following reactions **can** be reversed?

- A. burning a match
- B. melting candle wax
- C. bread becoming mouldy
- D. rusting iron

Study the images labelled below to respond to Item 40.



**E**



**F**



**G**



**H**

40. Which arrangement of the pictures above shows what happens to a glass of salt water when it is left out on a counter for several weeks?

- A. **H → F → G → E**
- B. **H → G → F → E**
- C. **E → G → F → H**
- D. **E → F → G → H**

**SECTION 4: AGRICULTURE SCIENCE**

41. In order to produce nutrients for the soil, leftover food such as banana peel and vegetable scraps are mixed with grass and left to rot. This process is called



- A. potting  
B. fertilization  
C. mulching  
D. composting
42. All of the following are functions of the soil **EXCEPT** to
- A. supply plants with water.  
B. provide chlorophyll to plants.  
C. support plant roots.  
D. supply nutrients to the growing plant.

43. What could **MOST LIKELY** happen if there were **NO** insects such as butterflies or bees on a farm?



- A. Crops would grow faster.  
 B. There could be less fruits or seeds.  
 C. The soil would become richer.  
 D. Weeds would disappear.
44. What is a common method used to control caterpillar damage to crops?
- A. Using chemical pesticides to kill the caterpillars  
 B. Increasing the amount of water given to the crops  
 C. Planting crops at a higher elevation to avoid caterpillars  
 D. Adding more fertilizer to the soil

Use the image below to respond to Item 45.

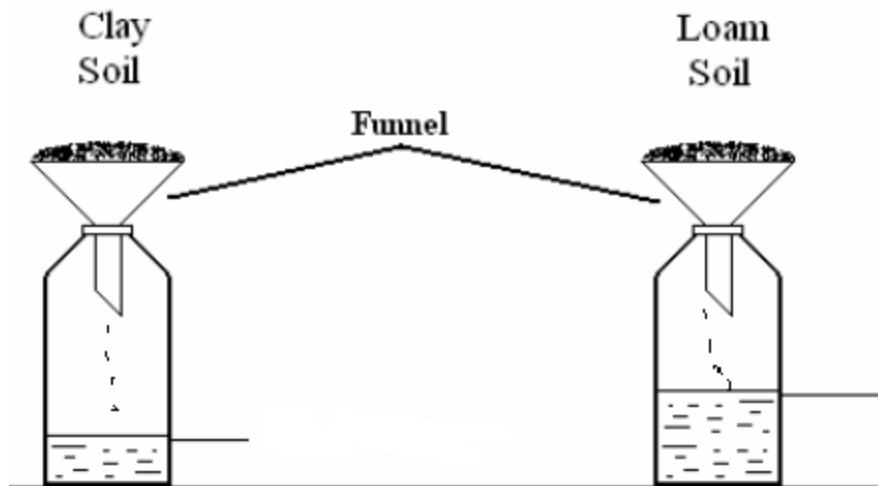


45. What plant is shown in the picture above?

- A. sugar apple
- B. watermelon
- C. soursop
- D. breadfruit

**Study the experiment details below to respond to Item 46.**

A volume of 100 ml of water was poured onto the soil in **each** of the funnels shown below.



46. The conclusion that can be drawn from the results of this experiment is that
- A. clay soil holds more water than loam soil.
  - B. clay soil drains faster than loam soil.
  - C. loam soil holds more water than clay soil.
  - D. loam soil is more fertile than clay soil.

47. Alexa is suffering from a disease called Scurvy. Which set of foods shown is the **BEST** source to help with her condition?



Grains & Cereals



Fruits & Vegetables



Legumes and pulses



Meat, fish, Poultry & egg

- A. grains and cereals
- B. fruits and vegetables
- C. legumes and pulses
- D. meat, fish and eggs

48. Which of the following is a poultry animal?



- A. chicken
- B. goat
- C. pig
- D. bat

49. We can get all these things from animals **without** killing them **EXCEPT**
- A. eggs
  - B. milk
  - C. wool
  - D. meat
50. Which of the following fish can survive in **BOTH** freshwater and saltwater?
- A. tuna
  - B. shark
  - C. salmon
  - D. goldfish

**END OF TEST**