



# **Nebraska State Accountability**

**Grade 5  
Science  
Practice Test**

Name:

## **Directions:**

On the following pages of your test booklet are multiple-choice questions for Session 1 of the Grade 5 *Nebraska State Accountability–Science (NeSA–S)*.

Each question will ask you to select an answer from among four choices. These questions will be found in your test booklet.

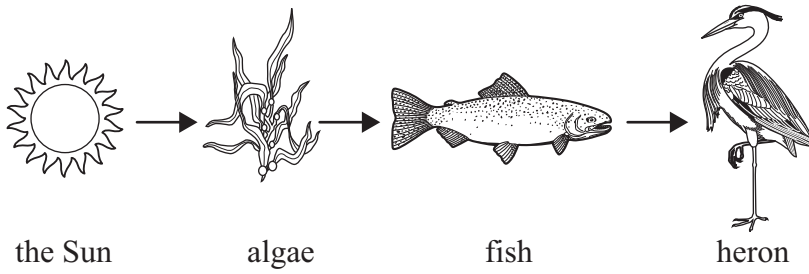
For all questions:

- Read each question carefully and choose the best answer.
- You may use scratch paper to solve the problems.
- You may not use a calculator on this test.
- Be sure to answer **ALL** the questions on your answer sheet.
- Only one of the answers provided is the correct response.

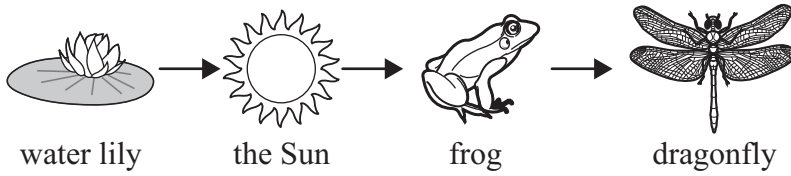
When you come to the word **STOP** at the end of Session 1, you have finished Session 1 of the Grade 5 Science Test. You may review Session 1 only to check your answers. Make sure you have marked all of your answers clearly and that you have completely erased any marks you do not want. When you are finished, put your answer sheet inside your test booklet and close your test booklet.

1. Which food chain is found in a water ecosystem?

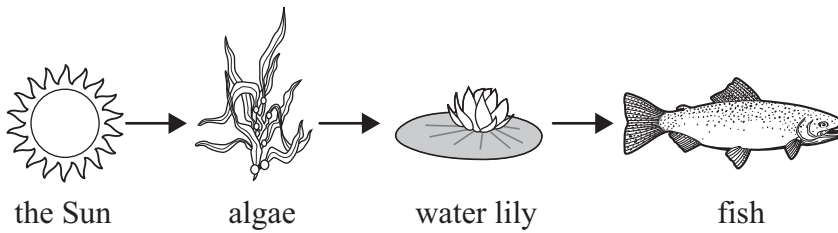
A.



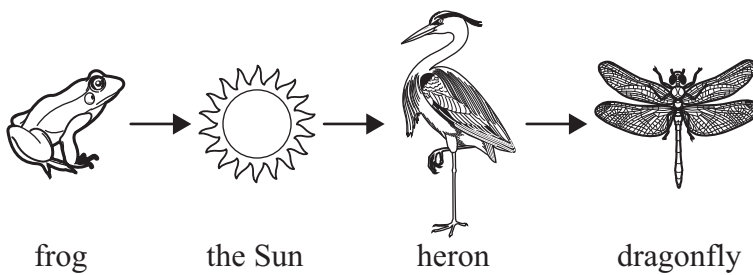
B.



C.



D.



2. Use the picture below to answer the question.

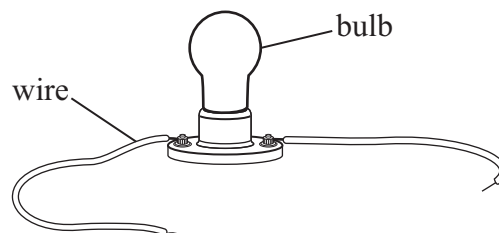


A farmer notices that the leaves on some sunflower plants have holes caused by insects. The seeds of these sunflowers are planted. How many of the new sunflower plants will inherit leaves with holes?

- A. all
- B. none
- C. one-half
- D. three-fourths

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3. Use the picture below to answer the question.

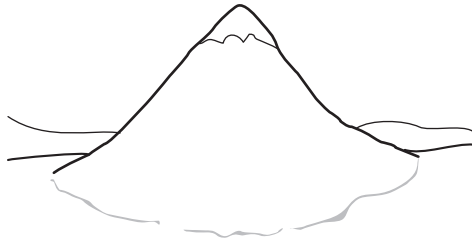


Which object is needed to light the bulb?

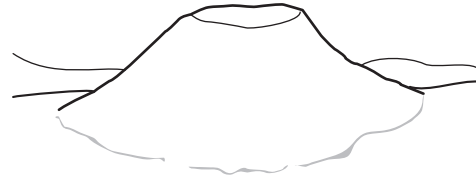
- A. a battery
- B. a switch
- C. another bulb
- D. another wire

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4. Use the pictures below to answer the question.



Before Event



After Event

Which event caused the change to the mountain?

- A. eruption
- B. flood
- C. hurricane
- D. landslide

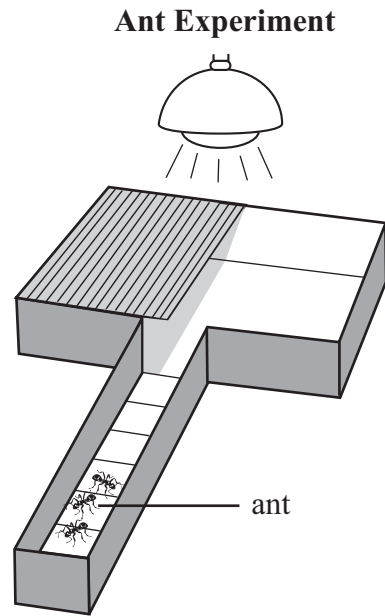
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5. Which time of day does the Sun appear highest in the sky?

- A. midnight
- B. noon
- C. sunrise
- D. sunset

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6. Use the picture below to answer the question.



Which question does this experiment test?

- A. Where do ants get food?
- B. What is the mass of the ants?
- C. How many kinds of ants are there?
- D. Will ants go to a dark or light area?

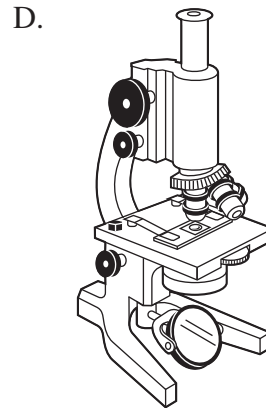
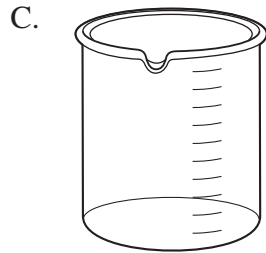
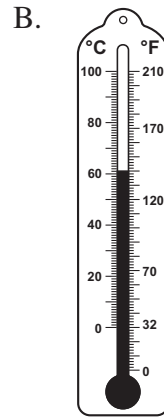
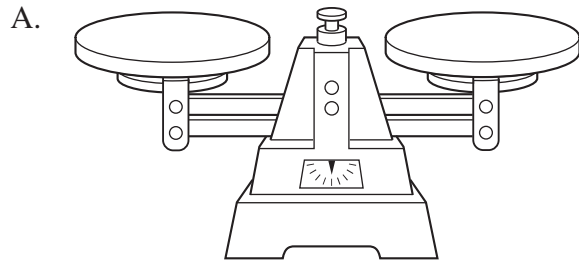
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7. Which object is opaque?

- A. glass window
- B. ice cube
- C. sunglass lens
- D. wooden door

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8. Students want to find out which box of feathers has the greatest mass. Which tool could they use to measure the mass of each box?



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9. What is another word for protective coloration?

- A. camouflage
- B. habitat
- C. hibernation
- D. migration

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10. Use the table below to answer the question.

**Summer Day in Fremont, Nebraska**

<b>Time</b>	<b>Air Temperature</b>
8:00 a.m.	18°C
9:00 a.m.	19°C
10:00 a.m.	20°C
11:00 a.m.	22°C
12:00 p.m.	24°C
1:00 p.m.	26°C
2:00 p.m.	29°C

What is the predicted air temperature at 4:00 p.m.?

- A. 27°C
- B. 29°C
- C. 35°C
- D. 43°C

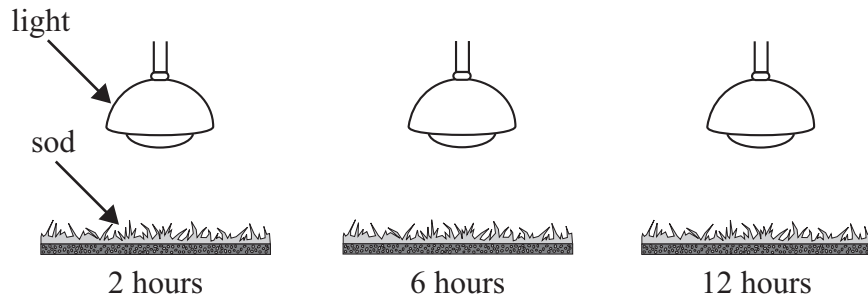
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11. Use the list below to answer the question.

Procedure:

1. Lay three equal pieces of sod (grass and soil) in three trays.
2. Place lights as shown in the picture.



3. Turn on the first light for two hours. Turn on the second light for six hours. Turn on the third light for 12 hours.
4. Add 200 milliliters (mL) of water to the sod in each tray every four days.
5. Measure the height of the grass in each tray on Friday of each week.

Students are completing an investigation. Which factor changes during the investigation?

- A. amount of light
- B. type of grass
- C. amount of water
- D. type of soil

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12. Which BEST describes how the Sun heats Earth's surface?

- A. consistently
- B. equally
- C. evenly
- D. unevenly

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13. Use the pictures below to answer the question.

**Bird Feet**



1



2



3



4

Which bird foot is the BEST for swimming?

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

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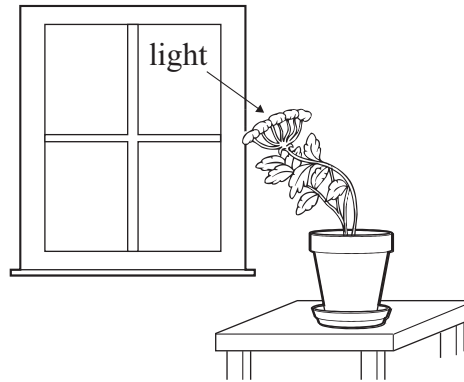
14. Which describes a change that takes place when a chocolate bar melts?

- A. A solid becomes a gas.
- B. A liquid becomes a gas.
- C. A solid becomes a liquid.
- D. A liquid becomes a solid.

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15. Use the picture below to answer the question.

**Plant Experiment**



Which conclusion can be made about this plant?

- A. The plant grows without light.
- B. The plant grows toward the light.
- C. The plant grows slower with light.
- D. The plant grows away from the light.

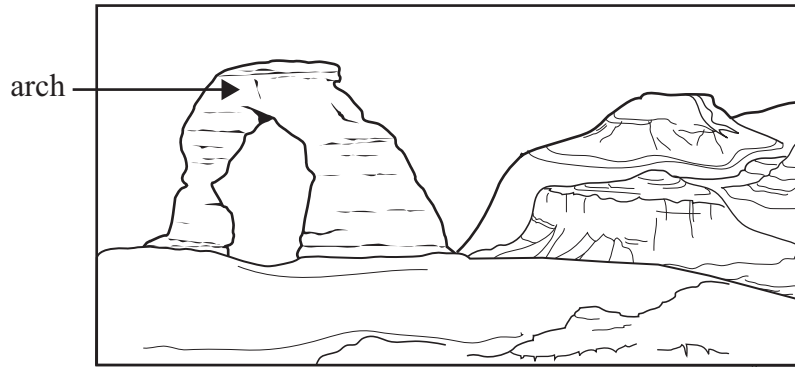
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16. Which shows an effect of humans on an environment?

- A. a nest made of dead branches
- B. a river eroding away a riverbank
- C. a trail built by cutting down trees
- D. a group of butterflies landing on flowers

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17. Use the picture below to answer the question.



Which process shaped the arch?

- A. deposition
- B. earthquake
- C. landslide
- D. weathering

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18. Which will a magnet attract?

- A. glass marble
- B. plastic cap
- C. rubber band
- D. steel nail

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**Science**  
**Grade 5 Practice Test**  
**Answer Key**

<b>1</b>	<b>A</b>
<b>2</b>	<b>B</b>
<b>3</b>	<b>A</b>
<b>4</b>	<b>A</b>
<b>5</b>	<b>B</b>
<b>6</b>	<b>D</b>
<b>7</b>	<b>D</b>
<b>8</b>	<b>A</b>
<b>9</b>	<b>A</b>
<b>10</b>	<b>C</b>
<b>11</b>	<b>A</b>
<b>12</b>	<b>D</b>
<b>13</b>	<b>B</b>
<b>14</b>	<b>C</b>
<b>15</b>	<b>B</b>
<b>16</b>	<b>C</b>
<b>17</b>	<b>D</b>
<b>18</b>	<b>D</b>