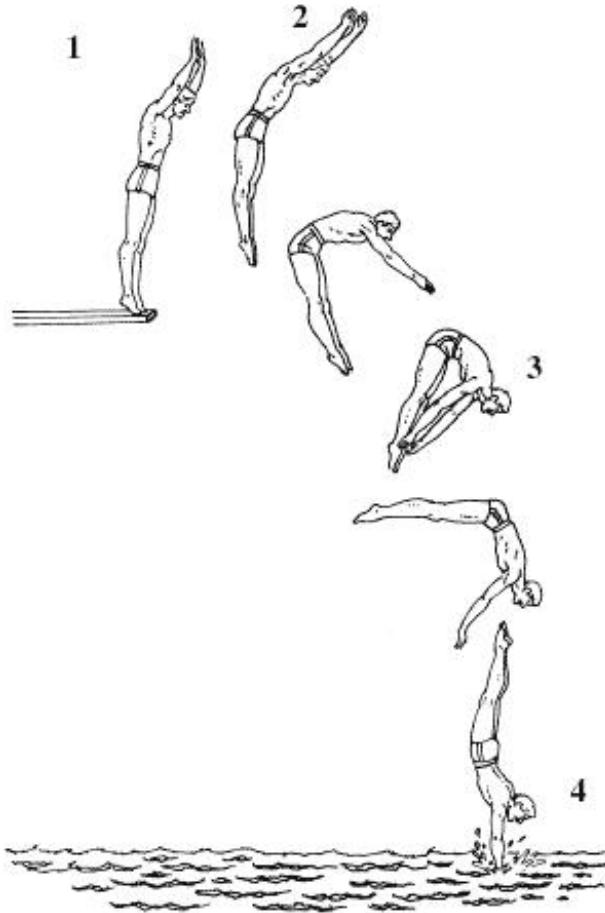


Name: _____

Date: _____

1) The diagram below represents a diver's motion from the top of a high diving board into a pool of water.



At which labeled point does the diver have the **least** potential energy?

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

2) A container is filled with 100 mL of water and placed in a freezer. The water in the container freezes at 0°C . A second container filled with 90 mL of water is placed in a second freezer. At what temperature does this second container of water freeze?

- A. -10°C
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- D. 10°C

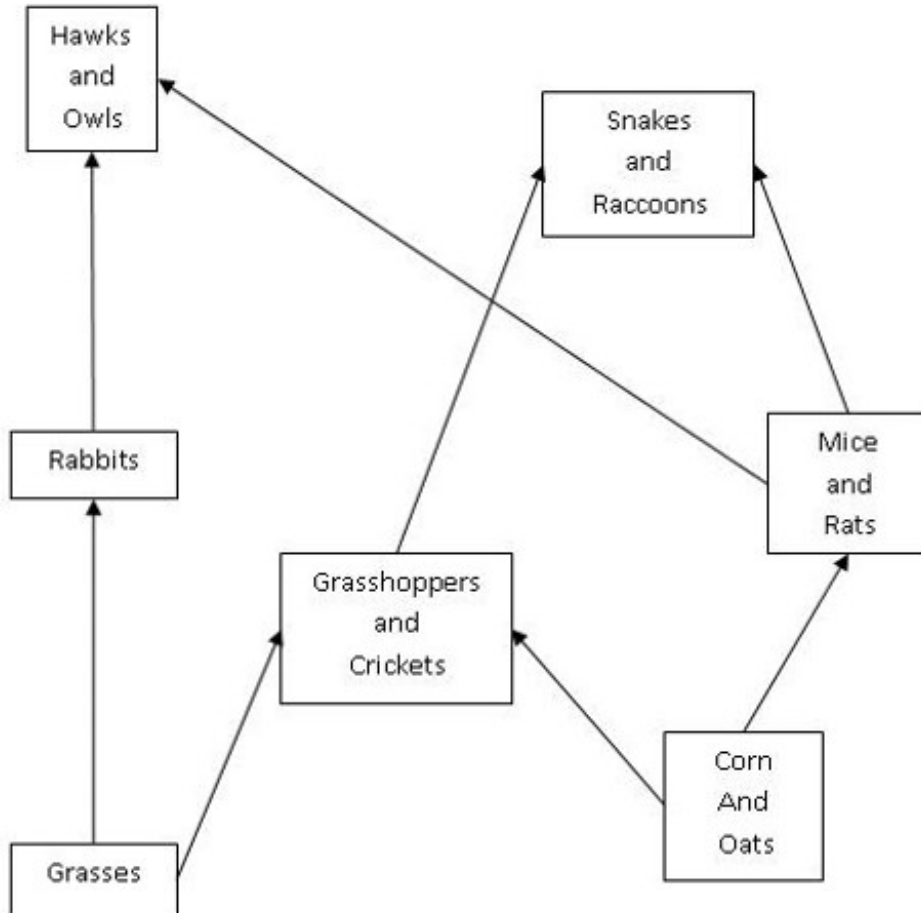
3) What energy transformation occurs when an electric lamp is turned on?

- A. electrical energy to light and heat energy
- B. light energy to electrical and mechanical energy
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- D. electrical energy to mechanical and heat energy

4) On a hot day, a student walked home from the grocery store with a bag of chocolate chips. When she arrived home the chocolate chips had melted in the bag. Why did the chocolate chips melt?

- A. Heat transferred from the chocolate chips to the bag.
- B. Heat evaporated from the bag to the chocolate chips.
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- D. Heat condensed from her hand to the chocolate chips.

5) The diagram below shows a food web.



If the corn and oats were completely removed from the above food web, which of the following would be the **most** affected?

- A. mice and rats
- B. hawks and owls
- C. snakes and raccoons
- D. grasshoppers and crickets

6) Which of the following is a characteristic of **all** chemical changes?

- A. A different state of matter is produced.
- B. Some mass is converted to energy.
- C. Some form of light is given off.
- D. A new material is formed.

7) Which of the following areas is **most likely** to form metamorphic rocks such as gneiss and schist?

- A. a sea floor
- B. a windblown desert
- C. a site deep underground
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8) Which of the following is an example of a physical change but **not** a chemical change?

- A. A log gives off heat and light as it burns.

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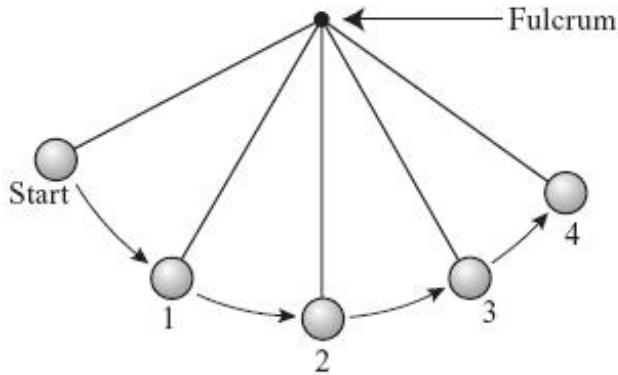
9) Which produces Earth's gravity?

- A. mass of Earth.
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- D. weight of Earth's atmosphere.

10) Which of the following groups of organisms uses sunlight to convert carbon dioxide and water into sugar and oxygen?

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11) The diagram below shows some positions in the path of a pendulum swinging from a fixed point called a fulcrum.



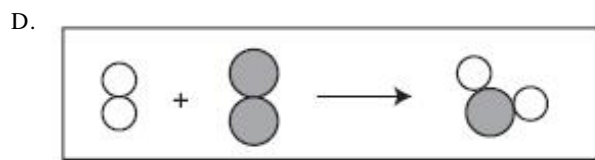
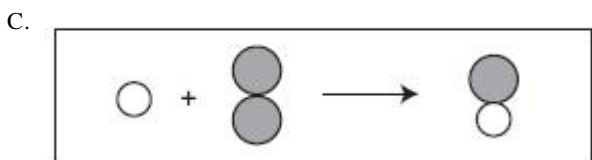
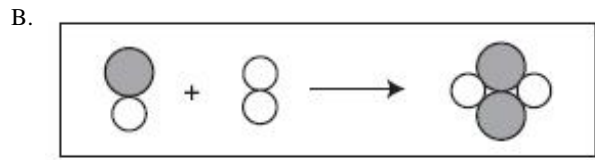
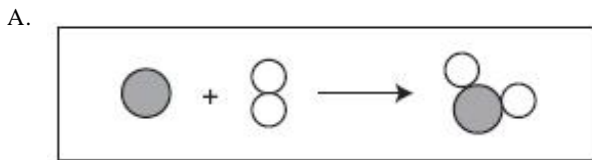
The pendulum is raised to the start position and released. At which two numbered positions is the potential energy of the pendulum **most likely** the same?

- A. position 1 and position 3
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12) Fossilized coral reefs, fish, and other warm water marine creatures have been found in mountainous regions of New England. Which of the following **best** explains how this could have occurred?

- A. The climate and geology of this area have changed over time.
- B. These creatures were better adapted to cold climates at one time.
- C. The process of fossilization greatly changed the original material.
- D. Scavengers carried the remains of these creatures to higher regions.

13) The law of conservation of mass can be demonstrated by a chemical reaction. Which of the following models of a chemical reaction **best** represents the law of conservation of mass?



14) In making a pizza, which process involves a chemical change?

- A. mixing spices for the sauce
- B. slicing pepperoni for the topping
- C. spreading cheese on the pizza
- D. baking the dough to form the crust

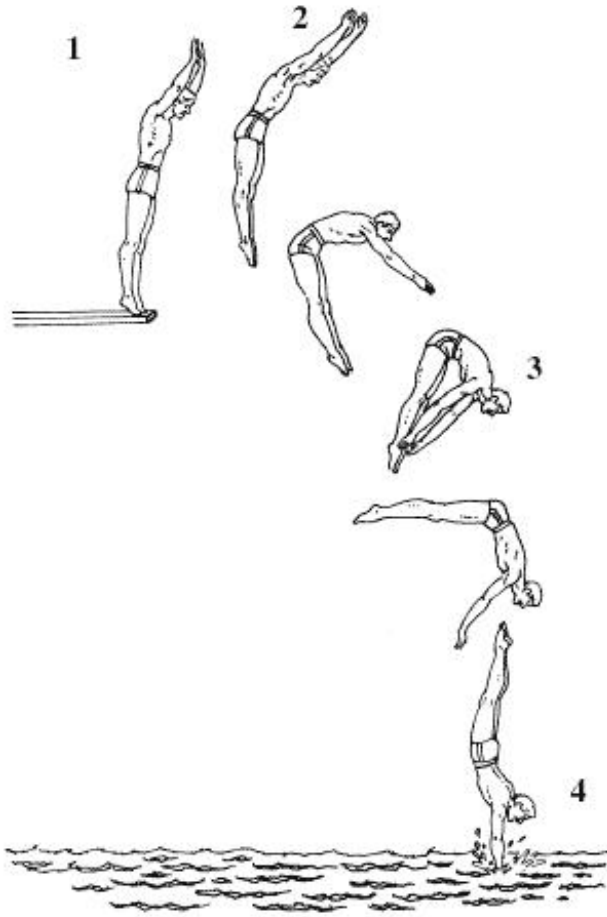
7thSup
!!!!!!!ANSWER KEY!!!!!!!

(Do not photo copy)

14 Question(s)

Test ID: 298306

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[ILO 7th & 8th ISC:1:e - SC:8:4:4]

2)

A container is filled with 100 mL of water and placed in a freezer. The water in the container freezes at 0°C . A second container filled with 90 mL of water is placed in a second freezer. At what temperature does this second container of water freeze?

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[ILO 7th & 8th ISC:3:a - SC:8:1:3:C]

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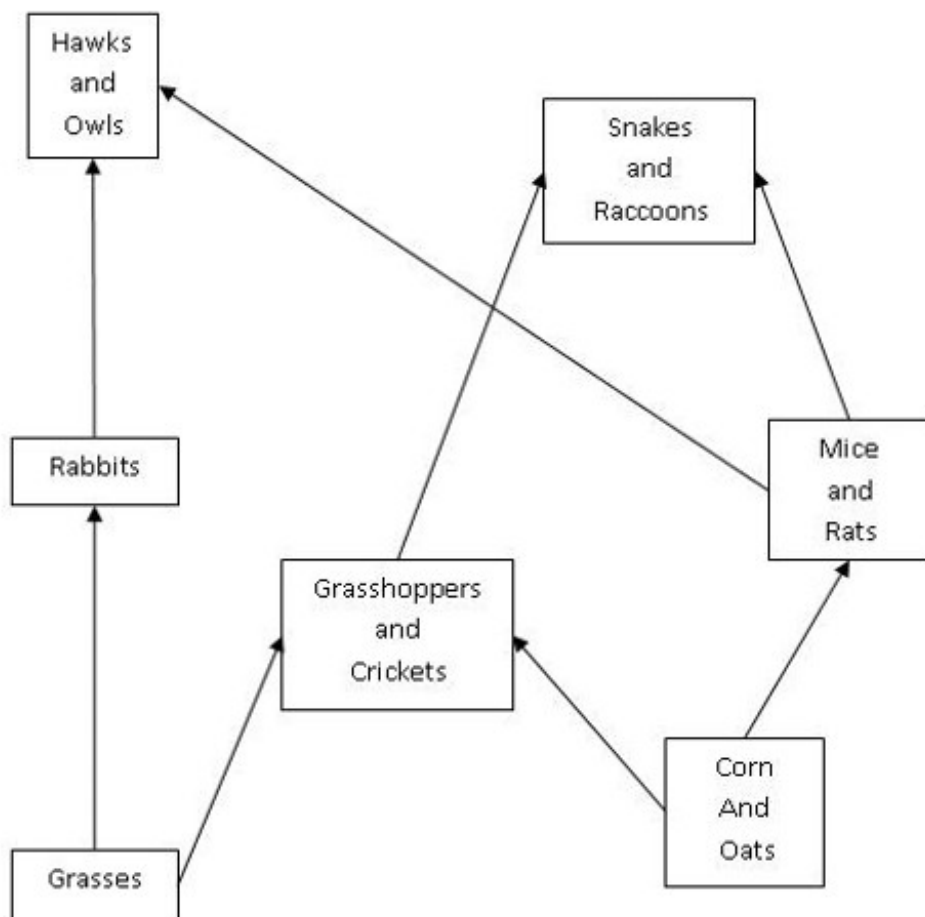
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[ILO 7th & 8th ISC:3:a - SC:8:4:4:B]

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[ILO 7th & 8th ISC:3:a - SC:8:4:1:D]

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[ILO 7th & 8th ISC:3:a - SC:8:2:3:C]

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[SC:8:1:2:B - ILO 7th & 8th ISC:3:a]

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[ILO 7th & 8th ISC:3:a - SC:8:3:2:A]

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[SC:8:1:2:A - ILO 7th & 8th ISC:3:a]

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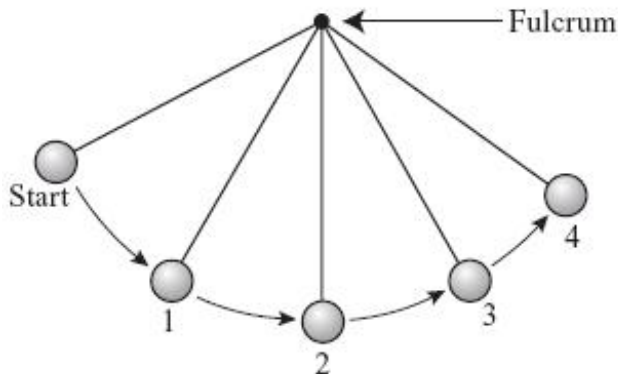
[SC:8:4:2:B - ILO 7th & 8th ISC:3:a]

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[SC:8:2:2:A - ILO 7th & 8th ISC:3:a]

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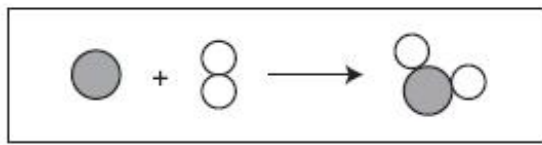
[SC:8:4:4:A - ILO 7th & 8th ISC:3:a]

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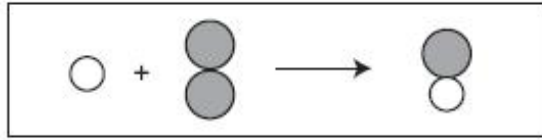
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[SC:8:3:3 - ILO 7th & 8th ISC:4:a]

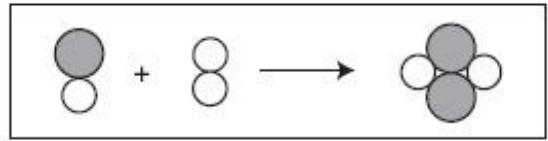
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✓
C.



B.



D.



[SC:8:1:4:A - ILO 7th & 8th ISC:4:f]

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[ILO 7th & 8th ISC:4:f - SC:8:1:2:B]