

IEA - Data Enhancement Project

Questionnaire printing

Study: SC2

Population: 2

Instrument: STB_2

Student Science Achievement Test (2B)

Population 2

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1 Where is the energy for photosynthesis generally obtained?

- A chlorophyll
- B chloroplasts
- C sunlight
- D carbohydrates
- E carbon dioxide

P2B01

2 Which of the following organs is not situated in the abdomen?

- A liver
- B kidney
- C stomach
- D bladder
- E heart

P2B02

3 The formula for the compound acetic acid (present in vinegar) is CH_3COOH .

What is the total number of atoms in one molecule of acetic acid?

- A 1
- B 2
- C 3
- D 6
- E 8

P2B03

4 The measuring cylinder contains a certain volume of water. The enlarged figure shows a view of the surface of the water as seen from the side. What is the volume of the water?

[Enlarged picture]

- A 50 cm³
- B 49 cm³
- C 48 cm³
- D 47 cm³
- E 46 cm³

P2B04

5 Dressed in the same way, a man can jump higher on the Moon than on the Earth. Which of the following is the best explanation of this?

- A His mass is less when he is on the Moon.
- B The force of gravity is less on the Moon than on the Earth.
- C His distance from the Earth is greater when he is on the Moon.
- D There is no air on the Moon to offer resistance.
- E Newton's Laws of Motion do not apply on the Moon.

P2B05

6 A mixture of powdered iron and sulphur is heated. What will be formed?

- A a single element
- B two other elements
- C a solution
- D an alloy
- E a compound

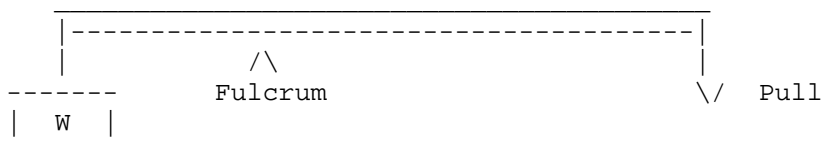
P2B06

7 Under which of the following conditions does water evaporate fastest?

- A on a hot and dry day
- A on a hot and dry day
- B on a hot and moist day
- C on a cold and dry day
- D on a cold and moist day
- E on a calm and moist day

P2B07

8 What is the advantage of using a lever such as that shown in the diagram to raise a weight W instead of lifting it directly?



- A less energy is required
- B it is quicker
- C less force is needed
- D less movement is required
- E less work has to be done

P2B08

- 9 A metal tray feels colder to touch than its plastic handle. Why?
- A Metal always has a lower temperature than plastic.
 - B Metal radiates much more heat than plastic and so cools more quickly.
 - C Metal conducts the heat away from your hand better than plastic.
 - D Plastic is a better heat conductor than metal.
 - E A smooth surface allows a closer contact than a rough one.

P2B09

- 10 This question refers to the diagram below.

[Picture]

No more water will go into the bottle. Why?

- A Air pushes harder than the water.
- B Air is heavier than the water.
- C Air takes up space and must get out to let the water in.
- D The glass tube is too thin.
- E The mass of the water is greater than the mass of the air.

P2B10
