

IEA - Data Enhancement Project

Questionnaire printing

Study: SC2

Population: 1

Instrument: STB_1

Student Science Achievement Test (1B)

Population 1

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1 A balloon is placed over the mouth of a bottle. The bottle is then heated by placing it in a dish of hot water. After a short time the balloon gets bigger.

[Picture of Before heating] [Picture of During heating]

Why does the balloon get bigger?

- A The air in the bottle expands.
- B The air in the bottle contracts.
- C The air pressure inside the bottle decreases.
- D The air pressure outside the bottle decreases.
- E The glass bottle expands.

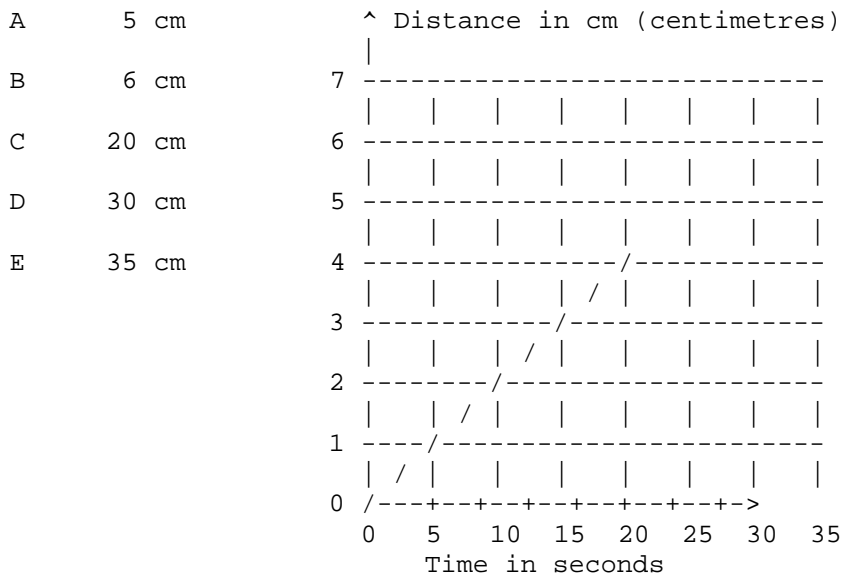
P1B01

2 A magnet is hanging by a piece of string. The magnet always stops with one end pointing to the North. What causes this?

- A gravity
- B light
- C heat
- D magnetism
- E energy

P1B02

3 The graph below shows the progress made by an ant moving along a straight line. If the ant keeps moving at the same rate, what will be its distance at the end of 30 seconds?



P1B03

- 4 What is the Sun?
- A a planet
 - B a star
 - C a comet
 - D a moon
 - E a meteor

P1B04

- 5 When this caterpillar [Picture] becomes an adult, what will it look like?
- [5 diagrams: cricket, butterfly, bat, grasshopper, frog]

- A Diagram 1
- B Diagram 2
- C Diagram 3
- D Diagram 4
- E Diagram 5

P1B05

- 6 When a person sees something, what carries the message from the eyes to the brain?
- A arteries
 - B glands
 - C muscles
 - D nerves
 - E veins

P1B06

- 7 A baby chick grows inside an egg for 21 days before it hatches. Where does the baby chick get its food before it hatches?
- A It is fed by the mother hen.
 - B It doesn't need any food.
 - C It makes its own food.
 - D It uses food stored in the egg.
 - E It eats the egg shell.

P1B07

8 Where do metals like aluminium and iron come from?

- A dead trees
- B water
- C animal bones
- D rocks
- E oil wells

P1B08
