

41 of 48 Which of these represents the freezing point of water in correct SI units?

Metic

- ☐ A 0°C
- ☐ B 0°F
- ☐ C 32°F
- ☐ D -273°C

Two are not metric, cross them off, one is absolute zero, there is only one that makes sense.

42 of 48 A girl kicks a soccer ball into the air. Which of these best explains why the soccer ball falls back to Earth?

- ☐ A The acceleration of the ball is unstable. She kicked it, what does unstable mean
- ☐ B The motion of the ball is changed by external forces. forces other than then the kick bring it down.
- ☐ C The pressure on the ball changes with altitude. The air inside the ball gets less or more (the air pressure changes)
- ☐ D The force exerted on the ball is greater than gravity. The ball comes down because the kick is more that gravity.

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Effect of Water Temperature

Temperature (°C)	Grams of Substance That Dissolve in 100 Milliliters of Water		
	Trial 1	Trial 2	Trial 3
10	5.0	5.1	4.9
20	8.0	7.8	7.9
30	10.0	9.9	10.0
40	15.0	14.9	15.1

Students measured the amount of an unknown substance that dissolved in water at different temperatures. What was the independent variable in this investigation? what did they change?

- ☐ A Amount of substance dissolved
- ☐ B Unknown substance used
- ☐ C Water temperature
- ☐ D Water volume

44 of 48 Which characteristic is common to the four outer planets in our solar system?

- ☐ A Low mass
- ☐ B High density
- ☐ C Fast revolution
- ☐ D Gaseous composition

Are we on an inner or outer planet? Which ones are rock, which are gases?

45 of 48 When comparing a plant cell to an animal cell, only the plant cell will contain —

- ☐ A ribosomes
- ☐ B chromosomes
- ☐ C chloroplasts
- ☐ D mitochondria

What is special about plants that makes them producers and green?

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Activities

1 hour of napping
1 hour of watching television
1 hour of walking on a treadmill

A student measures her heart rate after each of the activities listed. Based on this information, which is a constant in the student's investigation?

Constant - does not change

- ☐ A Equipment needed for activity
- ☐ B Length of activity time
- ☐ C Activity performed
- ☐ D Energy expended during activity

47 of 48 Which of these is the best description of a typical organism in the Plant kingdom?

a regular plant, like grass or a tree.

- ☐ A Is unicellular Uni means one, so this says one cell
- ☐ B Lacks a nucleus has no nucleus, no DNA, Chromosomes, etc
- ☐ C Makes its own food is a producer
- ☐ D Lacks a cell wall plant cells have cell walls, lack means does not.

48 of 48 Which of these is a way that a person can help improve air quality? How can you make the air BETTER

- ☐ A Build a compost pile A compost pile is when you pile up trash to let it decay into stuff for the garden.
- ☐ B Carpool with several people Will using one car instead of many make the air better?
- ☐ C Burn leaves in the fall will burning make the air better?
- ☐ D Use a gas-powered lawn mower will running a gas-powered lawn mower make the air better?