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 metic, 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?**

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

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

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

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

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

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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

a regular plant, like grass or a tree.

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

- A Is unicellular Uni means on, 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 buring make the air better?
- D Use a gas-powered lawn mower will running a gas-powered lawn mower make the air better?

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