

- 11 of 48 A student measured the power of a motor operating at different temperatures. The student recorded a total of 11 measurements, one at each 2 degree interval between 10°C and 30°C. Which change in the procedure would most improve the validity of conclusions based on this investigation?
- We want to make the experiment more sure, better tested. this means they did temperatures 10,12,14,16,18,20,22,24,26,28,30  
You can't only have 2 IV and DV  
They did a lot of temperatures
- ☐ A Increasing the number of variables
- ☐ B Decreasing the range of the independent variable
- ☐ C Repeating the experiment several times
- ☐ D Producing a graph of numerical observations

12 of 48 Which of these has the strongest gravitational field?

- ☐ A Sun
- ☐ B Earth
- ☐ C Saturn
- ☐ D Jupiter
- Three of these are planets, when three of the answer are the same, they are wrong. Only one is not a planet.

13 of 48

Observations of Steel Wool in Four Liquids

Most acidic

| pH of Liquid | Observation of Liquid             | Observation of Steel Wool |
|--------------|-----------------------------------|---------------------------|
| 2            | Bubbles appear quickly            | Color turns brown         |
| 3            | Bubbles appear moderately quickly | Color turns brown         |
| 5            | A few bubbles appear slowly       | No change in color        |
| 7            | No bubbles appear                 | No change in color        |

Neutral

Students placed steel wool in beakers of four different liquids in order of the most acidic to neutral. The students recorded their observations in the table. Which is the best conclusion based on the table?

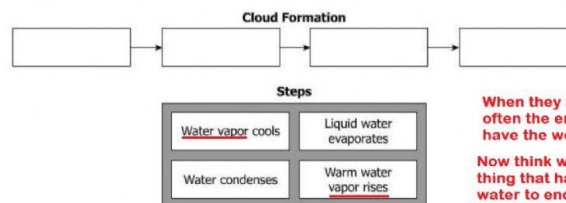
- ☐ A The more acidic the substance, the faster it reacts with steel wool.
- ☐ B The more acidic the substance, the faster the steel wool turns to a gas.
- ☐ C The less acidic the substance, the faster the steel wool becomes covered with air bubbles.
- ☐ D The less acidic the substance, the faster the steel wool changes color.
- 14 of 48 Which is the result of using a more powerful motor to run an elevator?
- would changing the motor change how far up and down the elevator goes, would the height of the building change?  
Would it make the elevator go faster or slower?
- ☐ A The same amount of work is done in less time.
- ☐ B Less work is done in the same amount of time.
- ☐ C The same amount of time is needed to move the same distance.
- ☐ D A longer time is needed to move a shorter distance.

15 of 48 A major scientific concern over nuclear energy is how to —

- ☐ A deal with the large amounts of fossil fuels required
- ☐ B reduce the high levels of carbon dioxide emitted into the air
- ☐ C prevent the depletion of the ozone layer
- ☐ D store the waste products safely
- If it is a concern, it means it might be bad, people are worried (concerned) about it

What are the ordered steps for cloud formation?

16 of 48



When they ask you to order, often the end of one step will have the words for the next.

Now think what is the first thing that has to happen for water to end up in the clouds? What is the last thing that happens when it rains?

- 17 of 48 Why is water known as the "universal solvent"?
- Universal, kind of all around.
- ☐ A It dissolves all known substances. Does water desolve everything?
- ☐ B It dissolves only solid substances. Can water dissolve stuff other than solids, like a liquid?
- ☐ C It dissolves the greatest number of substances. Say is dissolve a lot of stuff.
- ☐ D It dissolves substances faster than all other solvents. Does it always dissolve faster than every other solvent.
- 18 of 48 Which of these has been improved by genetic engineering?
- means something people did to the genes of an organism to make it better.
- ☐ A Visibility of insects to predators Is this better?
- ☐ B Growth of insects in cornfields Is this better?
- ☐ C Reduced number of pollinating insects Is this better?
- ☐ D Resistance of corn plants to insects Is this better?
- 2 are better, which one would help us the most.

19 of 48 Which action will most reduce the use of nonrenewable energy resources in a school district?

- ☐ A Installing low-flow faucets and toilets Does the reduce the use of energy?
- ☐ B Recycling worksheets and other paper products Does the reduce the use of energy?
- ☐ C Limiting the sweeping and mopping of classrooms to once a month Does the reduce the use of energy?
- ☐ D Replacing current lighting with more efficient lighting Does the reduce the use of energy?

20 of 48 Sound waves are unable to travel through —

- ☐ A air
- ☐ B a vacuum
- ☐ C water
- ☐ D a rock
- Three of these are states of matter, solid, liquid, and gas.
- when three of the answer are the same, they are wrong.