
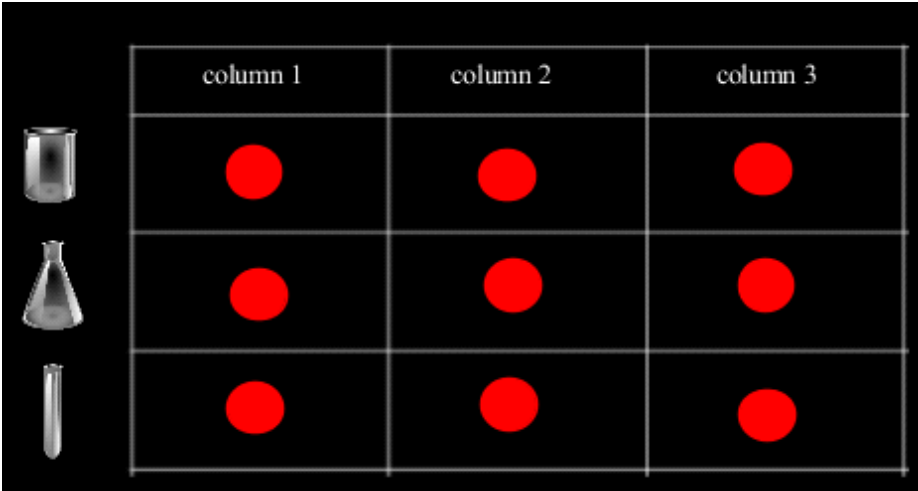


# M03 Game Day

Friday, July 16, 2010  
7:19 AM

Updated to be in game day format

| Slide  | Notes    |
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|   |          |
| <p>A barometer develops a leak in the column which is supposed to be free of air. As air seeps into the column, what will happen to the height of the liquid in that column?</p> <p>Choose one answer.</p> <p><input type="radio"/> a. The height will increase</p> <p><input checked="" type="radio"/> b. The height will decrease</p> <p>Choose the region of the atmosphere in the following ...</p> <p>If you wanted to study weather, which region of the atmosphere would you study? <input type="text" value="troposphere"/></p> <p>If you wanted to study the ozone layer, which region would you study? <input type="text" value="stratosphere"/></p> <p>If a sample of air is predominately oxygen, did it most likely come from the homosphere or the heteroshpere? <input type="text" value="heterosphere"/></p> | Column A |

If you were able to measure the speed of the molecules in the air while you were traveling up through the troposphere, would the speed of the molecules increase, decrease, or stay the same as your altitude increased?

Choose one answer.

- a. stay the same
- b. decrease
- c. increase

We know that ice melts because of heat. Why is it also correct to say that ice also freezes because of heat?

Choose one answer.

- a. The molecules will not arrange correctly unless you have a little heat
- b. heat is energy transferred. You have to transfer heat to freeze a substance

In what region(s) of the homosphere does temperature increase with increasing altitude?

Choose one answer.

- a. stratosphere
- b. mesosphere
- c. thermosphere

The instructor can pick one for the team to answer and then let the students answer individually for the remainder ...

Define the following terms.

|   |              |
|---|--------------|
| An instrument used to measure atmospheric pressure  | Barometer    |
| The mass of air surrounding a planet  | Atmosphere   |
| Energy that is being transferred  | Heat         |
| The lower layer of earth's atmosphere, which exists from ground level to roughly 80km (50 mi) above sea level | Homosphere   |
| The upper level of earth's atmosphere, which exists from 80 km (50 mi) above sea level                        | Heteroshpere |
| A measure of the energy of motion in a substance's molecules  | Temperature  |
| A narrow band of high-speed winds that circle the earth, blowing from west to east                            | Jet stream   |

Column b

Which regions of the atmosphere are in the heterosphere?

Choose at least one answer.

- a. thermosphere
- b. stratosphere
- c. exosphere
- d. troposphere
- e. mesosphere

Why is the "ozone hole" a seasonal phenomenon that exists only at the South Pole?

Choose one answer.

- a. The South Pole's magnetic field is so weak that ozone escapes to space in certain seasons
- b. Ozone cannot be depleted by CFCs unless there is a polar vortex which only exists at the south pole in specific seasons

Which regions are in the homosphere?

Choose at least one answer.

- a. mesosphere
- b. thermosphere
- c. exosphere
- d. stratosphere
- e. troposphere

2011-12 Quiz: <http://www.virtualhomeschoolgroup.com/mod/quiz/view.php?id=17598>

2011-12 Exam: <http://www.virtualhomeschoolgroup.com/mod/quiz/view.php?id=17600>