Grade 6 Science Air and Flight Quiz #1

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Matching Questions - Below is a description of some of the experiments we did in class. Match up each experiment with the scientific idea that it proves. Write the letter in the space provided. ***Please note that there are more scientific ideas then there are experiments, so choose wisely!**

Experiment

- 1. Place 1 inflated balloon on one side of a meter stick and 1 deflated balloon on the other end of a meter stick (the side of the stick with the deflated balloon rises). _____ (1 Mark)
- 2. Place a piece of cardboard on top of a full glass of water. Holding the glass and the cardboard quickly flip the glass upside-down and slowly let go of the cardboard (none of the water escapes, the cardboard stays attached to the glass). _____ (1 Mark)
- 3. Place a medicine dropper that is half full of water in a 2 litre bottle of water. Apply pressure to the bottle (the medicine dropper sinks). _____ (1 Mark)

Scientific Idea

- a. Air has weight
- b. Air takes up space
- c. Air can be compressed
- d. Air exerts pressure

Multiple Choice Questions - Circle the right answer (1 Mark Each)

- 4. The experiment in the picture to the right (Diving Paper), shows a piece of paper wedged into the bottom of a glass, that is held upside down in a tub of water. When you pull the glass out of the water you notice that the paper is not wet. This is because
 - a. air is lighter than water.
 - b. air in the jar takes up space.
 - c. water is heavier than air.
 - d. gravity is pulling down on the water.
- 5. An example of an **observation** made during the Diving Paper experiment is
 - a. gravity is pulling down on the water.
 - b. air in the jar takes up space.
 - c. air exerts pressure on the water.
 - d. the paper in the glass did not get wet.



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