

(Part 2) 1 Academy



Name: _____

Date: _____

School: _____

Memorise these very useful scientific explanations which can handle most PSLE questions. Win these 10 marks. Must memorise them well, and pocket your 10 marks in Section B. Best wishes.

1. **Comparison:** Mushroom is not a plant, as it cannot make its own food. It is a f_____. However, the bird nest's fern is a plant as it can make its own food through p_____.
2. **Comparison:** The killer whale is not a fish, it is a sea mammal. As it (breathe through) respire through its lungs. Unlike fish, it cannot respire (breathe through) gills. All sea mammals need to surface above the water to take in air from the atmosphere, unlike fish which can absorb d_____ oxygen in the water.
3. **Comparison:** Boiling happens throughout the liquid but Evaporation happens on the s_____ of the liquid only. Boiling happens at only one t_____, but E_____ can occur at any _____ in the l_____ state. If impurities are present, the boiling point of the liquid (eg. water, soup, etc) will _____.
4. **Comparison:** 500ml of water at 70 deg C has the same temperature of 800ml of water at 70 deg C. But the latter contains more _____ energy than the former. Temperature is a measure of the degree of coldness or hotness of an object, but heat energy is a measure of how much thermal _____ the object possesses. In the Solar System, the Sun has tremendous heat _____ and extremely very high t_____.
5. **Observation:** If you observe that several fish in an aquarium coming up to the surface to breathe, it may indicate that there is a lack of dissolved _____ in the water. Possible causes include over-_____, the water had been b_____ and cooled, lack of submerged _____ plants, etc.

6. **Describe/Explain:** Hot tea in a metal cup will lose heat _____ than the same volume and temperature of hot tea in a plastic cup. This is because metal is a b _____ conductor of h _____ than plastic.
7. **Describe:** Tiny water droplets are formed when the warmer water vapour in the air l _____ heat and c _____ on the cooler surface.
8. **Explain:** No water droplets are observed to form on surface B, as the temperature of surface B is at the same t _____ of the surrounding air. In addition, the very low h _____ of the environment minimises c _____.
9. **Explain the purpose of using the same... plant in the experiment.**
 Ans: To ensure that any difference in the (**variable measured**) is only due to (**the change made**). If a different plant is used, the number of (leaves, size of roots, amount of stomata, etc), will affect the result of the experiment.

10. **Explain the negative effects of deforestation on the Earth's environment.**
 Ans: **Global Warming** is the worldwide increased in temperature of the Earth due to increased amount of heat being trapped by the atmosphere. Caused by:
 (a) increased amount of _____ released through burning of fossil fuels.
 (b) massive deforestation (less trees left to carry out photosynthesis)

This global warming effect is called the **Greenhouse effect**.

Global warming leads to:

- (a) m _____ of polar ice caps and glaciers (large masses of ice)
 (b) increased in sea _____
 (c) flooding of c _____ areas due to (b).



Win these additional 10 marks. Must memorise them well, and pocket your 20 marks in Section B. The other 20 marks, you can score yourself. So best wishes to your full marks in Section B. See you again in 2017.

