

WELLAND GOULDSMITH SCHOOLS

CLASS: V

SUBJECT: SCIENCE

Chapter: Air and Water

A layer of air around the earth is called the atmosphere. The atmosphere moves with the earth in the same direction and at the same speed. Air has weight and occupies space and exerts pressure. Air contains many useful gases. The active part of the air is oxygen and the inactive part made of nitrogen, carbon dioxide and other gases. Air is used to inflate things and to move liquids. Air is polluted by smoke, dust and toxic gases released by the factories.

Water is called the universal solvent. Insoluble impurities can be separated from water by decantation, sedimentation, and filtration. Soluble impurities can be removed by evaporation and distillation. Drinking water can be purified by boiling or using chemicals like Chlorine and potassium permanganate.

Q1) Fill in the blanks:

- a) The dissolved substance in water is called _____.
- b) We measure the air pressure with an instrument called _____.
- c) Air occupies _____ and has _____.
- d) The flame needs _____ to burn.
- e) Plants take in _____ from the soil.
- f) Air is a _____ of many gases.

- g) _____ air exerts a greater pressure.
- h) _____ should always be stored in a clean pot and in a clean place.
- i) The _____ moves with the earth in the same direction and at the same speed.

Q2) Answer the following questions in brief.

- a) Name the methods used to separate tea leaves from tea.
- b) Name two chemicals used to purify water.
- c) Name two disease causing germs.
- d) Name a gas give out during breathing and burning.
- e) Name a gas used in electric lights.
- f) Name a gas used to produce an orange glow in glass tube.
- g) Name a factor that can cause change in weather.
- h) Name a gas that helps in combustion.

Q3) Define the following terms:

- a) Evaporation
- b) Distillation
- c) Decantation
- d) Filtration
- e) Inhaled air