

STATES OF MATTER (teacher's notes)

INTRODUCTION

About matter:

- Atoms join together to make molecules. For example two hydrogen atoms and one oxygen atom join together to make one molecule of water.
- “Molecules are so small that it is almost impossible to see them, even with powerful microscopes” (*101 Cool science Experiments*, published in 2005 by Hinkler Books Pty Ltd, Australia).
- Most matter is visible, but some matter is invisible (e.g. air).
- Water is different from most other substances because it exists in all three states of matter: solid as in ice and snow; liquid as in rivers, seas and oceans; and gas as in water vapour.

Activity 01: Classify these things into solids, liquids and gases.

Remember to point out what element you want the children to focus on in each picture when using the images because, for example, in the same picture we see an iceberg, the sea and the air.

Steam is an invisible gas.