

# WATER

## What is this topic about?

To keep it as simple as possible, (K.I.S.S.) this topic involves the study of:

1. THE IMPORTANCE OF WATER
2. STRUCTURE, BONDING & PROPERTIES OF WATER
3. THE CHEMISTRY OF AQUEOUS SOLUTIONS
4. HEAT CAPACITY & CALORIMETRY

...all in the context of water's vital role in the natural world

## but first, an introduction...

### Water... Amazing Stuff!

It seems very strange to devote an entire topic to just one simple compound.

But water is so important in so many ways...



all life on  
Earth  
depends on  
WATER

WATER  
is involved  
in our  
life &  
leisure



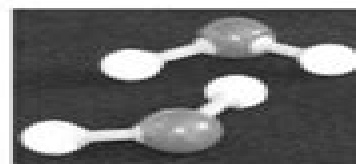
### WATER...

- covers most of the Earth
- controls weather and climate
- carves landscapes
- makes up 75% of all living things
- dissolves things
- absorbs heat

...and much more

### Chemically...

You already know several different ways to describe and visualise the water molecule...



In this topic you will learn more about the  
**Chemical Bonding**  
within and between water molecules, and how  
this is responsible for water's  
many unique properties.

You will learn about the  
**Chemistry of Solubility**  
and how we measure concentrations, and  
calculate with

**Molarity** of solutions.

Finally, as a lead-in to Topic 4, you will learn  
about water's quite remarkable Heat Capacity,  
and how we use it in the technique of

**Calorimetry**  
for measuring energy changes  
during chemical processes.

# Keep It Simple Science Preliminary Chemistry

**M Carnoy**



## Keep It Simple Science Preliminary Chemistry:

**Science** John Michels (Journalist), 1907 Vols for 1911 13 contain the Proceedings of the Helminothological Society of Washington ISSN 0018 0120 1st 15th meeting      **Excerpts from Preliminary Class Specifications for Use in the Classification of Positions in the Field Service of the Navy Department** United States. Personnel Classification Board. Field Survey Division, 1942      Handbook of Basic Science ,1972      Chemical News and Journal of Physical Science William Crookes, James H. Gardiner, Gerald Druce, H. W. Blood-Ryan, 1888      **The Chemical News and Journal of Industrial Science** ,1928      *Journal of the Society of Chemical Industry* Society of Chemical Industry (Great Britain), 1894

**Chemical News and Journal of Industrial Science** ,1899      The Journal of the Society of Chemical Industry ,1894

**Chemical news and Journal of physical science** ,1899      The Journal of Education ,1893      **Resources in Education** ,1998      **The Chemical News and Journal of Industrial Science** William Crookes, James H. Gardiner, Gerald Druce, H. W. Blood-Ryan, 1871      **Northwest Journal of Dentistry** ,1924      Dental Items of Interest ,1923      Educational Times ,1916      School Science and Mathematics School Science and Mathematics, 1917      School Science and Mathematics ,1917      Proceedings of the Central Association of Science and Mathematics Teachers Central Association of Science and Mathematics Teachers (U.S.), 1916      English Mechanic and Mirror of Science and Art ,1889      **Popular Science** ,1957-01 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

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