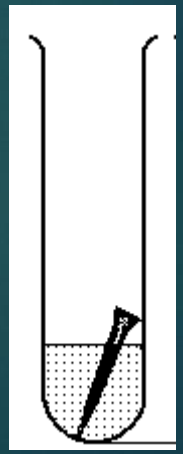
Chapter 1.2: Rusting

What is rust?

- Require both air AND water.
- Orange/brown substance.
- Rust is ‘Iron Oxide’
- Iron + Oxygen ➔ Iron Oxide

Investigating Conditions of Rusting

- Prepare the test tubes with the nail in the 6 conditions as instructed on the pack
- Predict the results; whether it will
  - Rust a bit
  - Rust a lot
  - Does not rust
- Leave in the lab for two weeks and check the results



Prevention

- Cover in oil
- Paint
- Galvanise – coat with Zinc
- Stainless steel – mixture of Fe and C and Chromium (Cr)

What is Rust?

Cars are made from steel. Steel is mostly made from the element _____. The problem with iron is that it _____. If the paint chips off a car, the iron underneath starts to go rusty. Rust can even _____ under paint. Rusty iron is ___ in colour. Iron loses its _____ as it goes rusty. This is why rusty cars become ___ to drive and end up in a scrap yard.

Rusts, Green, Strength, Iron, Unsafe, Spread, Brown, Safe, Copper.

Rusting

- Describe what rusting is and what conditions are needed for rusting of iron.
- How you can prevent rusting?
- Is rusting a physical or chemical change. Explain your answer.