

|  |
| --- |
| Chemical Demonstrations |
| Silver Xmas Trees |

Silver Xmas Trees

This reaction can be applied to curriculum for excellence.

*Through experimentation, I can identify indicators of chemical reactions having occurred…*

SCN 3-19a

*Having carried out a range of experiments using different chemicals, I can place metals in order of reactivity…*

SCN 4-19b

N4 Chemistry in society

*- The properties of Metals and Alloys*

CfE Higher – Chemistry in Society

*Oxidising or reducing agents*


# Apparatus you will need

2 microscope slides

Petri dish

# Chemicals you will use

* 1. mol l-1 Silver (I) nitrate

Strip of copper

Copper wire (Xmas tree)

# What you will do

1. Lay the copper strip on top of one the microscope slides.
2. Gently place the second slide on top of the copper strip.
3. Place the 2 slides inside the Petri dish.
4. Add enough silver nitrate solution to cover both slides.
5. Observe what happens.
6. Remove the slides, add the Xmas tree and observe what happens.

This works best if observed using a webcam or USB microscope

**Health and Safety**

Silver nitrate is corrosive.

Wear gloves and eye protection