



## Resources Required:

For detailed information about sourcing the materials please see our resources sheet. For this experiment it is only necessary to have an example of a natural pigment and one of a man-made pigment.

- Natural pigment (Ancient):
  - Iron Oxides (yellow, red)
  - Malachite
  - Chalk Rock
  - Ultramarine Blue
  - Chalk Sticks
- Man-Made pigment (Modern):
  - Powder Paints
- PVA Glue
- Eggs (Optional)
- Pestle & Mortar (if grinding is required)
- Plastic Cups
- Spoons
- Paint Brushes

## Practical Notes:

If using eggs as a binder check that there are no allergies towards them. Care must be taken when grinding to avoid significant inhalation of any dust.

## Further Work:

Children can make their own “cave chalk stick” using egg shells. Information about this is available on our website – [www.creatingacolourfullife.com](http://www.creatingacolourfullife.com), under the experiments section. Relates to the concept that materials can be mixed together to form a new, usable item.

The ancient and modern paints that the children have made can be used to make a display, outlining what they have learned.

## Answers:

1. Minerals and rocks
2. Spit, animal fat and/or ear wax.
3. Browns, dark oranges, dark reds.
4. Modern day paints are a lot brighter. Much wider selection of colours.
5. Paint pigment: Dry, fine powder, not sticky, solid.  
Binder: Very sticky, viscous, liquid.
6. Sap from plants and milk from cows.