Suggested fire experiment

- 1. You will need to formulate a hypothesis: Neanderthals used magnesium to help light fires.
- 2. You will need to make two fires: a test fire and a control fire to compare it with.
- 3. You will need to decide what the measure of success is: e.g. flames appear more quickly on the fire with magnesium.
- 4. You will need to control variables: e.g. make sure the fires have the same amount of fuel, the same structure, the same lighting method etc...









Resources produced by AHRC-funded project "Coping with climate: the legacy of *H. heidelbergensis*" (University of Reading & University of Brighton), with Schools Prehistory & Archaeology (http://www.schoolsprehistory.co.uk/)

Test fire



Ask children what their conclusions are? Has the experiment proved the hypothesis correct?

smoke.



7. Try to light this fire and get the children to

count how long it is before they see flames. This

fire took 24 seconds to light and it stayed alight.





8. The magnesium may give off white sparks.

They don't travel far but keep about a metre

from the flames, and don't breathe in the