

Science Curriculum Design

Content from the science National curriculum (2014)

Scientific knowledge and understanding

Substantive Knowledge

Knowing 'what'



- Knowing more facts
- Giving further examples of the same concept
- Understanding and using a wider range of vocabulary
- Using models or concepts to explain ideas
- Making and explaining links across areas of science

Working scientifically

Disciplinary Knowledge

'how we know'



- Observing over time
- Pattern seeking
- Identifying, classifying and grouping
- Comparative and fair testing
- Researching using secondary sources

Science in Action

- Historical applications of science
- Careers that use science
- The scientific community and beyond



plants



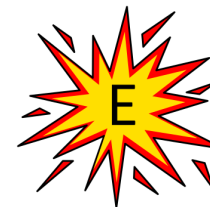
animals,
including
humans



living things
and their
habitats



materials



energy



forces,
earth and
space