



SCIENCE

PROGRESSION OF SKILLS

WORKING SCIENTIFICALLY

EYFS

- Observe, describe and compare
- Sort things
- Ask questions
- Answer some questions, with support
- Use simple equipment
- Measure using non-standard units
- Test out ideas with help
- Talk about what might happen and what they found out
- Talk and draw about science
- Record on a simple table collectively/as a class

YEAR 1

- Observe, describe and compare using simple science words
- Sort things
- Ask science questions
- Collect evidence to answer some questions
- Use simple equipment
- Measure using non-standard units
- Test out ideas with help
- Talk about what might happen and what they found out
- Write and draw about science
- Record on a simple table

YEAR 2

- Observe, describe and compare using science words
- Sort and order observations
- Ask scientific questions and use information to help answer them
- Plan how to collect data to answer questions, with help
- Measure using non-standard, then standard units
- Talk about what might happen and compare it to what did happen
- Plan a simple fair test, with help
- Test out their own/someone else's ideas
- Explain why (in a simple way)
- Record information on tables and bar charts
- Talk, write and draw about science.

YEAR 3

- Observe, describe and compare using Key Stage 2 Scientific vocabulary
- Group and order observations giving scientific reasons
- Ask scientific questions and use information/collect data to answer them
- Predict what might happen and begin to explain why using everyday ideas
- Measure in standard units
- Test out their own/someone else's ideas
- Plan a fair test with help
- Explain observations using cause and effect
- Draw simple table and bar charts to record their own observations/ data
- Talk about observations/results and begin to use scientific facts to explain them
- Find an talk about simple patterns in results
- Communicate findings in a variety of ways
- Talk about how to improve their own work

YEAR 4

- Observe, describe and compare using Key Stage 2 scientific vocabulary
- Group and order observations giving scientific reasons
- Collect evidence/find information to test out an idea/prediction or answer a question
- Predict what might happen and begin to explain why using everyday idea and scientific ideas/facts
- Measure in standard units
- Select equipment, with help
- Plan ways to test out their own/someone else's ideas
- Set up a fair test and explain why it is important to do so
- Draw tables and bar charts to record observations/data
- Explain observations/ results using cause and effect and scientific facts and ideas
- Explain what the evidence shows and whether it supports any predictions
- Identify and explain simple trends and patterns in results
- Communicate findings in a variety of ways
- Talk about how to improve their own work.

YEAR 5

- Observe, describe and compare in careful detail
- Sort and classify with precise reasons
- Make predictions and explain why
- Plan how to collect evidence/information/data to test out an idea/prediction or answer a question
- Measure precise in standard units
- Select the most suitable equipment for the task
- Plan ways to test out their own/someone else's ideas
- Set up and carry out fair tests
- Repeat observations and measurements
- Draw tables, bar charts and simple line graphs to record observations/data
- Interpret and predict from bar charts and line graphs
- Explain observations/results using cause and effects and scientific facts and ideas
- Explain what the evidence shows and whether it supports any predictions
- Identify trends and patterns in data and explain using scientific facts and ideas
- Begin to identify scientific evidence that has been used to support or refute ideas or arguments
- Select the most appropriate way to communicate findings, evaluating the evidence as well as describing it
- Talk about how to improve their own work giving reasons

YEAR 6

- Observe, describe and compare in careful detail using the correct language
- Sort and classify with precise reasons
- Make predictions based on scientific facts and ideas
- Collect evidence/information/data to test out an idea/prediction or answer a question from a wide range of sources
- Measure precisely in standard units
- Select the most suitable equipment for the task
- Plan ways to test out their own/someone else's ideas
- Independently set up and carry out fair tests
- Decide when to repeat observations and measurements
- Choose the most appropriate way to record and present results
- Interpret and predict from bar charts and line graphs
- Explain observations/results using cause and effects and scientific facts and ideas
- Explain what the evidence shows and whether it supports any predictions
- Identify the trends and patterns in data that do not fit and explain using scientific facts and ideas
- Identify scientific evidence that has been used to support or refute ideas or arguments
- Select the most appropriate way to communicate findings, evaluation the evidence as well as describing it

ENQUIRY SKILLS

- asking questions
- making predictions
- setting up tests
- observing and measuring
- recording data
- interpreting and communicating results
- evaluating



ENQUIRY APPROACHES

- comparative and fair testing
- research
- observation over time
- pattern seeking
- identifying, grouping and classifying

