

Curriculum Links – Batteries

Year 7-8

- Scientific knowledge has changed peoples' understanding of the world and is refined as new evidence becomes available.
- Science knowledge can develop through collaboration across the disciplines of science and the contributions of people from a range of cultures
- Solutions to contemporary issues that are found using science and technology, may impact on other areas of society and may involve ethical considerations
- People use science understanding and skills in their occupations and these have influenced the development of practices in areas of human activity
- Identify questions and problems that can be investigated scientifically and make predictions based on scientific knowledge
- Collaboratively and individually plan and conduct a range of investigation types, including fieldwork and experiments, ensuring safety and ethical guidelines are followed
- Measure and control variables, select equipment appropriate to the task and collect data with accuracy
- Construct and use a range of representations, including graphs, keys and models to represent and analyse patterns or relationships in data using digital technologies as appropriate
- Summarise data, from students' own investigations and secondary sources, and use scientific understanding to identify relationships and draw conclusions based on evidence
- Reflect on scientific investigations including evaluating the quality of the data collected, and identifying improvements
- Use scientific knowledge and findings from investigations to evaluate claims based on evidence
- Communicate ideas, findings and evidence based solutions to problems using scientific language, and representations, using digital technologies as appropriate

	Demonstrated inquiry	Prescribed inquiry	Structured inquiry	Guided inquiry	Open inquiry
Questions	No question	Teacher provides question	Learner sharpens question	Learner selects question	Learner poses questions
Plans	No planning	Teacher provides procedure	Teacher discusses possible plans	Learner guided while planning	Learner determines plans
Conducts	Teacher conducts	Learner told how to conduct and record	Learner sharpens plan and conducts	Learner guided while conducting and recording	Learner conducts and records
Analyse	Teacher analyses	Learner told how to analyse data	Teacher discusses possible analyses	Learner guided in analysis	Learner analyses data identifying trends
Problem Solve	No problem solving	Teacher provides reasoning and links	Teacher discusses reasoning and conclusion	Learner guided in reasoning and formulate conclusion	Learner reasons to formulate conclusions
Communicate	No conclusion	Teacher writes conclusion	Learner writes conclusion	Learner guided on justifying findings and communicating	Learner justifies findings and conclusions