

Science Progression of Skills (Working Scientifically): Holy Family School

WS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
1	I can ask questions and know they can be answered in different ways.	I can ask questions and know they can be answered in different ways.	I can ask questions and use different types of scientific enquiries to answer them.	I can ask relevant questions and use different types of scientific enquiries to answer them.	I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.	I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
2	I can look closely, using equipment.	I can watch closely, using equipment.	I can set up simple practical enquiries, comparative and fair tests.	I can set up practical enquiries, comparative and fair tests.	I can take measurements, using a range of scientific equipment, with increasing accuracy and precision , taking repeat readings when appropriate.	I can take accurate measurements, using a range of scientific equipment, taking repeat readings when appropriate.
3	I can do tests.	I can do tests.	I can make observations and take measurements using standard units, using a range of equipment, including thermometers and data loggers.	I can make systematic & careful observations and take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.	I can record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.	I can record complex data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.
4	I can name and group.	I can name and group.	I can gather, record, classify and present data in a variety of ways to help in answering questions.	I can gather, record, classify and present data in a variety of ways to help in answering questions.	I can use test results to make predictions to set up further comparative and fair tests.	I can use test results to make predictions to set up further comparative and fair tests.
5	I can use my observations and ideas to suggest answers to questions.	I can use my observations and ideas to suggest answers to questions.	I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.	I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.	I can talk about and present findings from enquiries, including conclusions, causal relationships and explanations of how reliable the information is.	I can report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.
6	I can collect and record data to help answer questions.	I can collect and record data to help answer questions.	I can report on findings from enquiries including spoken and written explanations, displays or presentations of results and conclusions.	I can report on findings from enquiries including spoken and written explanations, displays or presentations of results and conclusions.	I can identify scientific evidence that has been used to support or refute ideas or arguments.	I can identify scientific evidence that has been used to support or refute ideas or arguments.
7			I can use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.	I can use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.		
8			I can explain differences, similarities or changes related to simple scientific ideas and processes.	I can explain differences, similarities or changes related to simple scientific ideas and processes.		
9			I can use straightforward scientific evidence to answer questions or to support my findings.	I can use scientific evidence to answer questions or to support my findings.		