Expectations for Science in Year 5

Component	Statement
Working Scientifically	I can plan enquiries, including recognising and controlling variables where necessary.
Working Scientifically	I can take measurements, using a range of scientific equipment, with increasing accuracy and precision.
Working Scientifically	I can record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models.
Working Scientifically	I can report on my findings from enquiries using oral and written explanations of results. These explanations involve causal relationships and conclusions.
Working Scientifically	I can present findings in written form, displays and other presentations.
Working Scientifically	I can use test results to make predictions to set up further comparative and fair tests.
Working Scientifically	I can use simple models to describe scientific ideas.
Working Scientifically	I can identify scientific evidence that has been used to support or refute ideas or arguments.
Living Things and their Habitats	I can describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.
Living Things and their Habitats	I can describe the life process of reproduction in some plants and animals.
Animals, Including Humans	I can describe the changes as humans develop to old age.
Properties and Changes of Materials	I can compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.
Properties and Changes of Materials	I can know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.
Properties and Changes of Materials	I can use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.
Properties and Changes of Materials	I can give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.
Properties and Changes of Materials	I can demonstrate that dissolving, mixing and changes of state are reversible changes.
Properties and Changes of Materials	I can explain that some changes result in the formation of new material. I can explain that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.
Earth and Space	I can describe the movement of the Earth and other planets and how they are relative to the Sun in the solar system.
Earth and Space	I can describe the movement of the Moon and how it is relative to the Earth.
Earth and Space	I can describe the Sun, Earth and Moon as approximate spherical bodies.
Earth and Space	I can use the idea of the Earth`s rotation to explain day and night and the apparent movement of the sun across the sky.
Forces	I can explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.
Forces	I can identify the effects of air resistance, water resistance and friction that act between moving surfaces.
Forces	I can recognise that some mechanisms, including levers, pulleys and gears allow a smaller force to have a greater effect.