| I can | Science – Year 5 | Start | End  |
| --- | --- | --- | --- |
| Working scientifically | Plan different kinds of fair experiments. |  |  |
| Tell you how I control variables in my experiments. |  |  |
| Take accurate measurements using lots of different scientific equipment. |  |  |
| Tell you why it’s important to take repeated measurements. |  |  |
| Record data using:  |
| Labelled scientific diagrams. |  |  |
| Classification keys. |  |  |
| Tables. |  |  |
| Bar charts. |  |  |
| Line charts. |  |  |
| Make predictions about how other tests will work using my results. |  |  |
| Present my findings in a written report with an introduction, conclusion and results. |  |  |
| Present my findings in an oral presentation with an introduction, conclusion and results. |  |  |
| Tell you about other experiments that have been done to support or disprove ideas. |  |  |
| Living things and their habitats | Describe the differences between the life cycles of:  |
| A mammal. |  |  |
| A bird. |  |  |
| An insect. |  |  |
| An amphibian. |  |  |
| Describe the reproductive cycle of a plant. |  |  |
| Describe the reproductive cycle of an animal. |  |  |
| Animals including humans | Describe how humans change as they age. |  |  |
| States of matterForces and magnets | Classify materials by:  |
| Transparency. |  |  |
| Hardness. |  |  |
| Solubility. |  |  |
| Electrical conductivity. |  |  |
| Thermal conductivity. |  |  |
| Response to magnets. |  |  |
| Tell you about how some materials dissolve to form a solution. |  |  |
| Tell you how to separate materials in a solution. |  |  |
| Decide how best to separate mixtures. |  |  |
| Tell you using evidence why some materials are best suited to different uses. |  |  |
| Tell you why some state changes are reversible, and some state changes aren’t. |  |  |
| Earth and Space | Tell you about how the planets in our solar system move in relation to the Sun. |  |  |
| Tell you about how the Moon moves relative to the Earth. |  |  |
| Tell you the shape of the Moon, Sun and Earth. |  |  |
| Explain how day turns into night. |  |  |
| Forces | Explain why objects fall to Earth. |  |  |
| Tell you about the effects of air resistance, water resistance and friction. |  |  |
| Tell you how mechanisms allow a smaller force to have a greater effect. |  |  |