Assessment sheet for: Science

Class: Year 5

Unit		
Aut 1 **Unit title:** Animals incl Humans	**National Curriculum coverage** - describe the changes as humans develop to old age	**Key scientific skills** - research the gestation periods of other animals and compare them with humans - find out and record the length and mass of a baby as it grows
Aut 2 **Unit title:** Properties and changes of materials	**National Curriculum coverage** - 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 - know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution - use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating - give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic - demonstrate that dissolving, mixing and changes of state are reversible changes - explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda	**Key scientific skills** - carry out tests to answer questions - compare materials in order to make a switch in a circuit - observe and compare the changes that take place - research and discuss how chemical changes have an impact on our lives
Spr 1 **Unit title:** Forces	**National Curriculum coverage** - explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object - identify the effects of air resistance, water resistance and friction, that act between moving surfaces - recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect	**Key scientific skills** - explore falling paper cones or cup-cake cases, and design and make a variety of parachutes and carry out fair tests to determine which designs are the most effective - explore resistance in water by making and testing boats of different shapes - design and make products that use levers, pulleys, gears and/or springs and explore their effects
Spr 2 **Unit title:** Earth and Space	**National Curriculum coverage** - describe the movement of the Earth, and other planets, relative to the Sun in the solar system - describe the movement of the Moon relative to the Earth - describe the Sun, Earth and Moon as approximately spherical bodies - use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky	**Key scientific skills** - compare the time of day at different places on the Earth through internet links and direct communication - create simple models of the solar system - construct simple shadow clocks and sundials, calibrated to show midday and the start and end of the school day - find out why some people think that structures such as Stonehenge might have been used as astronomical clocks
Sum 1+2 **Unit title:** Living Things and	**National Curriculum coverage** - describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird - describe the life process of reproduction in some plants and animals	**Key scientific skills** - observe and compare the life cycles of plants and animals in their local environment with other plants and animals around the world

their Habitats		- ask pertinent questions and suggesting reasons for similarities and differences - try to grow new plants from different parts of the parent plant - observe changes in an animal over a period of time, comparing how different animals reproduce and grow
	National Curriculum coverage	**Key scientific skills**