Year 5 Progression in Science							
Biology			Chemistry	Physics			
Animals including humans	Living things and their habitats	Plants	Materials	Forces	How the world works		
Humans: how we change as we age • I know the changes as humans develop to old age	Life cycles and reproduction I know the differences in the life cycles of a mammal, an amphibian, an insect and a bird I know the life process of reproduction in some plants and animals 		 Properties and changes of materials I know how to compare and group together everyday materials on the basis of their properties and the particular uses of everyday materials I know that some materials will dissolve in liquid to form a solution, how to recover a substance from a solution, and how to decide how mixtures might be separated, including through filtering, sieving and evaporating I know that some changes are reversible and some changes result in the formation of new materials which is not usually reversible 	 Forces I know that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object I know that air resistance, water resistance and friction act between moving surfaces I know that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect 	 Earth and Space I know the movement of the Earth, and other planets, relative to the Sun in the solar system I know the movement of the Moon relative to the Earth I know that the Sun, Earth and Moon are approximately spherical bodies I know that the Earth's rotation causes day and night and can explain the apparent movement of the sun across the sky 		

Humans: how we change	Life cycles and	Properties and changes of	Forces	Earth and Space
 as we age I will know that different mammals have different gestation periods I will know how a human foetus develops I will know how children develop I will know that bodies change with puberty I will know that there can be some difficulties associated with old age 	 reproduction I will know how to compare the life cycles of amphibians I will know how to compare the life cycles of mammals I will know how to compare the life cycles of insects I will know how to compare the life cycles of birds I will know how to classify animals according to their life cycles I will know how to compare the life cycles of mammals, according to their life cycles I will know how to compare the life cycles of mammals, amphibians, insects and birds I will know how the compare the life cycles of mammals, amphibians, insects and birds I will know how that vegetative reproduce I will know that vegetative reproduction is growing new plants from cuttings I will know about the work of naturalists and animal behaviourists 	 I will know how to 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 I will know why materials are used for different purposes including metals, wood and plastic I will know that some materials will dissolve in liquid to form a solution I will know how mixtures might be separated, including through filtering, sieving and evaporating I will know how to recover a substance from a solution I will know that dissolving, mixing and changes of state can be reversible changes and some changes 	 I will know that objects fall to Earth because of the force of gravity I will know that air resistance is a force which acts between the air and moving surfaces I will know that water resistance is a force which acts between the water and moving surfaces I will know that friction is a force which acts between moving surfaces I will know that some mechanisms (including levers, pulleys and gears) allow a smaller force to have a greater effect 	 I will know the movement of the Earth, and other planets, relative to the Sun in the solar system I will know how the Moon moves relative to the Earth I will know how the Earth's rotation causes day and night

	 are irreversible and result in the formation of new materials I will know the advantages of new materials that have been created by scientists 	
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