

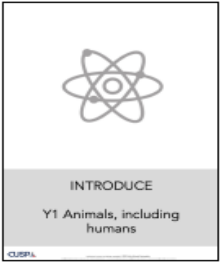
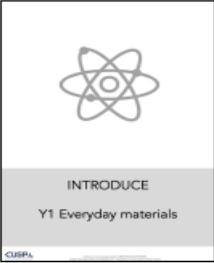


CUSP Geography Progression Tables – Keeley Alborough and Alex Bedford

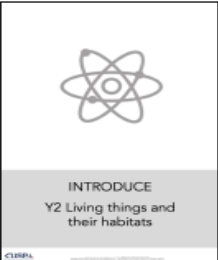
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p>Y1 Seasons and weather Day and night  </p>  <p>INTRODUCE Y1 Changes Seasons and weather Day and night CUSP</p>	<p>Physics*   The study of energy forces mechanics waves structure of atoms physical universe   Earth in Space</p> <p>*Adapted from BBC Bitesize</p>	<p><b>Managing Self</b> Manage their own basic hygiene and personal needs, including dressing, going to the toilet, and understanding the importance of healthy food choices.</p> <p><b>The Natural World</b> Explore the natural world around them, making observations and drawing pictures of animals and plants.</p> <p>Explore the natural world around them, making observations and drawing pictures of animals and plants.</p> <p>Understanding some important processes and changes in the natural world around them, including seasons and changing states of matter.</p>	<p><b>Seasons and weather</b> What are the four seasons?</p> <p>What's the weather like in Autumn, Winter, Spring and Summer?</p> <p><b>Day to night</b> Why does day become night?</p>	<p>dawn dusk mild rotate soaked weather</p>	<p>month season spring summer autumn winter</p>

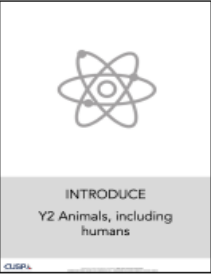
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p><b>Y1 Plants, including trees I</b></p>  <p>INTRODUCE Year 1 Plants, including trees Structure of plants   common and wild plants   trees</p>	<p><b>Biology</b> I The study of living things, including</p> <p><b>Common plants and trees in a local environment</b></p>	<p><b>Managing Self</b> Manage their own basic hygiene and personal needs, including dressing, going to the toilet, and understanding the importance of healthy food choices.</p> <p><b>The Natural World</b></p> <p>Explore the natural world around them, making observations and drawing pictures of animals and plants.</p> <p>Explore the natural world around them, making observations and drawing pictures of animals and plants.</p> <p>Understanding some important processes and changes in the natural world around them, including seasons and changing states of matter.</p>	<p><b>Structure of plants</b> What are the parts of a plant?</p> <p><b>Wild and common plants</b> What are wild plants and where do you find them?</p> <p>What are garden plants and where do you find them?</p> <p><b>Trees</b> What makes a tree?</p> <p>What types of tree are there? (Trees that live around my school)</p> <p>What's the difference between trees?</p>	<p>bud trunk branch bark seed wild</p>	<p>nutrients stem deciduous evergreen</p>


Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p><b>Y1 Animals, including humans I</b></p>  <p>INTRODUCE Y1 Animals, including humans</p>	<p><b>Biology</b> I The study of living things, including</p> <p><b>Types of animals Food animals eat Senses</b></p>	<p><b>Managing Self</b> Manage their own basic hygiene and personal needs, including dressing, going to the toilet, and understanding the importance of healthy food choices.</p> <p><b>The Natural World</b> Explore the natural world around them, making observations and drawing pictures of animals and plants.  Explore the natural world around them, making observations and drawing pictures of animals and plants.  Understanding some important processes and changes in the natural world around them, including seasons and changing states of matter.</p>	<p><b>Animals</b> What is an animal?  What types of animals are there?  What is similar and what is different?  <b>Eating</b> What does food tell us about an animal?  <b>Senses</b> What makes me an animal? What senses do I have?</p>	<p>blood senses young feathers fur scales</p>	<p>mammal amphibian reptile herbivore carnivore omnivore</p>

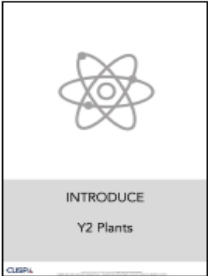
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p><b>Y1 Everyday materials</b> I</p> 	<p><b>Chemistry*</b> I the study of the <b>composition, behaviour and properties of matter</b></p>	<p><b>Managing Self</b> Manage their own basic hygiene and personal needs, including dressing, going to the toilet, and understanding the importance of healthy food choices.</p> <p><b>The Natural World</b> Explore the natural world around them, making observations and drawing pictures of animals and plants.  Explore the natural world around them, making observations and drawing pictures of animals and plants.  Understanding some important processes and changes in the natural world around them, including seasons and changing states of matter.</p>	<p><b>Materials</b> What are materials?  What are things made of in school?</p> <p><b>Properties</b> How can I describe materials?  Which materials are waterproof and which are not?  Which materials are transparent and which are opaque?</p> <p><b>Use what you know</b> What's the best material for the job? Why?</p>	<p>absorb rough smooth waterproof metal plastic</p>	<p>materials properties flexible transparent opaque physical</p>

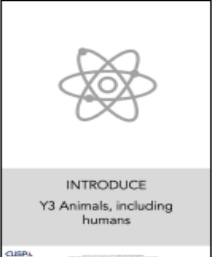
\*Adapted from BBC Bitesize

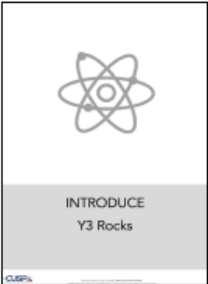
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p>Y2 Living things and their habitats I</p> 	<p><b>Biology</b> I The study of living things, including</p> <p><b>Characteristics of living things</b></p> <p><b>Relationship of living things and their environment.</b></p>	<p>EYFS – Natural Word</p> <p>Y1 Plants</p> <p>Y1 Animals including humans</p> <p>Y1 Revisit Animals, including humans</p> <p>Y1 Second revisit of Animals, including human and plants</p>	<p><b>Characteristics of living things</b> What is alive and what is not?</p> <p>What do all living things have in common?</p> <p><b>Location of living things</b> Where do plants and animals live?</p> <p>What plants and animals live in our local environment?</p> <p><b>How living things are connected</b> What are food chains? How are they connected?</p> <p>Why do plants and animals need each other?</p>	<p>thrive depend producer consume prey predator</p>	<p>oxygen nutrition respiration sensitivity reproduction excretion</p>

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p><b>Y2 Animals, including humans I</b></p> 	<p><b>Biology</b> I The study of living things, including</p> <p><b>Reproduction Basic needs Diet and exercise for humans</b></p>	<p>EYFS – Natural Word</p> <p>Y1 Plants</p> <p>Y1 Animals including humans</p> <p>Y1 Revisit Animals, including humans</p> <p>Y1 Second revisit of Animals, including human and plants</p>	<p><b>Animals and change</b> REMEMBER: what is an animal?</p> <p>How do animals change as they mature?</p> <p><b>Air, water and food</b> How do we change as we mature?</p> <p>What do all animals need to stay alive?</p> <p><b>Health and food</b> Keeping healthy: why do we exercise?</p> <p>Keeping healthy: why do we eat different types of food?</p>	<p>healthy survive exercise heart lungs muscles</p>	<p>hygiene larva pupa vertebrates invertebrates metamorphosis</p>

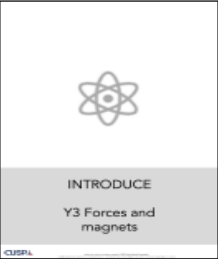
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p data-bbox="226 320 427 432">Y2 Use of everyday materials I</p> 	<p data-bbox="488 320 674 528"><b>Chemistry*</b>   the study of the <b>composition, behaviour and properties of matter</b></p> <p data-bbox="488 954 674 965">*Adapted from BBC Bitesize</p>	<p data-bbox="730 320 965 344">EYFS Natural world</p> <p data-bbox="730 384 999 408">Y1 Everyday materials</p>	<p data-bbox="1140 320 1256 344"><b>Materials</b> What are materials used for? Categorise and compare wood, metal, plastic and glass.</p> <p data-bbox="1140 472 1615 560">What are materials used for? Categorise and compare ceramics, rock, paper and card, and fabric.</p> <p data-bbox="1140 600 1592 679"><b>Changes</b> What happens when we squash, bend, twist or stretch a material?</p> <p data-bbox="1140 719 1570 775"><b>Purpose</b> What's the right material for the job?</p> <p data-bbox="1140 807 1570 831">What's the most absorbent material?</p> <p data-bbox="1140 871 1491 895">Who invented waterproofing?</p>	<p data-bbox="1655 320 1816 496">artificial brittle extracted fabric manufactured natural</p>	<p data-bbox="1879 320 2007 496">ceramic durable inflexible reflective rigid translucent</p>

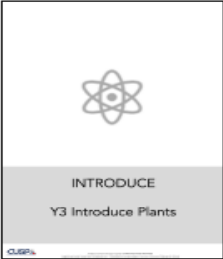
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p>Y2 Plants I</p> 	<p><b>Biology</b>   The study of living things, including</p> <p><b>Growth Health</b></p> <p><b>Relationship of living things and their environment</b></p>	<p>EYFS – Natural Word</p> <p>Y1 Plants</p> <p>Y1 Animals, including humans</p> <p>Y2 Living things and their habitats</p>	<p><b>Growing from a seed</b> How do seeds germinate and what happens?</p> <p><b>Growing from a bulb</b> What happens when bulbs sprout?</p> <p><b>Healthy plants</b> What do plants need to thrive and be healthy?</p> <p>What can happen if plants don't get the things they need?</p> <p>What do I notice about plants around the school? How are they healthy? How are they unhealthy?</p> <p><b>Show what you know</b> How do seeds and bulbs grow?</p> <p>What do plants need to be healthy?</p>	<p>wither dormant mature bulb anchor sustain</p>	<p>germination perennial carbon dioxide glucose clone</p>

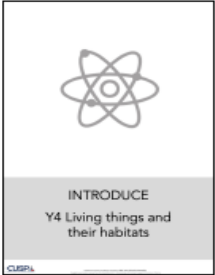
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p><b>Y3 Animals, including humans</b></p> 	<p><b>Biology</b></p> <p>The study of living things, including</p> <p><b>Amount and type of nutrition</b></p> <p><b>Structure of humans and animals</b></p>	<p>EYFS Natural world</p> <p>Y1 Animals, including humans</p> <p>Y2 Animals, including humans</p> <p>Y2 Living things and their habitats</p>	<p><b>Food</b> What effect does the food we eat have?</p> <p><b>Skeleton</b> Where is my skeleton and what does it do?</p> <p><b>Muscle</b> Where are my muscles and what do they do?</p>	<p>minerals skeleton skull voluntary involuntary nerves</p>	<p>biceps triceps vertebrae vitamins proteins carbohydrates</p>

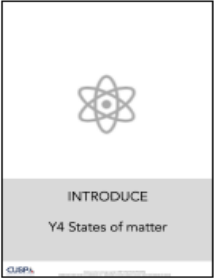
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p>Y3 Rocks  </p>  <p>INTRODUCE Y3 Rocks</p>	<p><b>Chemistry*</b>   the study of the <b>composition, behaviour and properties of matter</b></p>	<p>Y1 Everyday materials Y2 Use of everyday materials</p>	<p><b>Types</b> How are rocks formed?  What types of rocks are there?</p> <p><b>Change</b> Can rocks change?  How can we test a rock to see if it is limestone or chalk?</p> <p><b>Soil</b> Is soil just dirt? What makes soil?</p> <p><b>Fossils</b> How are fossils formed?  Elaborate and remember rocks, soils and fossils.</p>	<p>cemented compacted decay prehistoric soil transform</p>	<p>fossil igneous magma metamorphic minerals sedimentary</p>

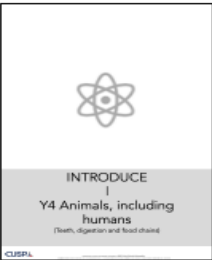
\*Adapted from BBC Bitesize

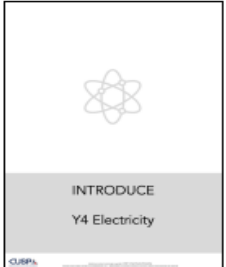
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p>Y3 Forces and Magnets  </p> 	<p>Physics*   The study of energy forces mechanics waves structure of atoms physical universe   Earth in Space</p>	<p>Y1 Seasonal changes  Y1 Everyday materials  Y2 Uses of everyday materials</p>	<p><b>Contact force and friction</b> What are contact forces?  How do surfaces affect the motion of an object?  How does friction affect moving objects?  <b>Non-contact force</b> What is a non-contact force?  How is this different to a contact force?  <b>Magnetic force</b> How do magnets attract and repel?  Which materials are magnetic? Forces and magnetism summary.</p>	<p>consequence contact force attract north south</p>	<p>magnet resistance friction repel pole magnetic field</p>

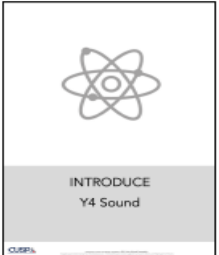
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p><b>Y3 Plants I</b></p> 	<p><b>Biology</b> I</p> <p>The study of living things, including</p> <p><b>Structure and function</b></p> <p><b>Food and survival</b></p> <p><b>Life systems</b></p> <p><b>Reproduction</b></p>	<p><b>Y1 Plants</b></p> <p><b>Y1 Animals, including humans</b></p> <p><b>Y2 Living things and their habitats</b></p> <p><b>Y2 Plants</b></p>	<p><b>Flowering plants</b> What are the parts of a flowering plant? What do they do?</p> <p><b>Food and survival</b> Do all plants need the same things to thrive and grow?</p> <p>How do leaves make food for the plant?</p> <p>How does water move through a plant?</p> <p><b>Flower function</b> What do flowers do?</p> <p>What is pollination?</p>	<p>adapt essential glucose transport variety vital</p>	<p>transpiration stoma pollination stamen pistil photosynthesis</p>

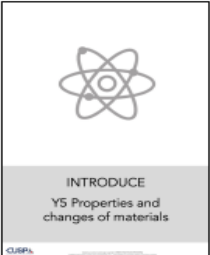
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p data-bbox="203 413 416 533">Y4 Living things and their habitats I</p> 	<p data-bbox="461 413 613 437"><b>Biology</b></p> <p data-bbox="461 445 678 541">I The study of living things, including</p> <p data-bbox="495 576 645 600"><b>Grouping</b></p> <p data-bbox="472 643 667 667"><b>Classification</b></p> <p data-bbox="461 710 667 805"><b>Environmental change and impact</b></p>	<p data-bbox="712 413 831 437">Y1 Plants</p> <p data-bbox="712 480 1088 504">Y1 Animals, including humans</p> <p data-bbox="712 547 1032 603">Y2 Living things and their habitats</p> <p data-bbox="712 646 831 670">Y2 Plants</p> <p data-bbox="712 713 831 737">Y3 Plants</p>	<p data-bbox="1126 413 1290 437"><b>Living things</b> What are the characteristics of living things?</p> <p data-bbox="1126 544 1503 600"><b>Vertebrates and invertebrates</b> What animals are vertebrates?</p> <p data-bbox="1126 643 1514 667">What animals are invertebrates?</p> <p data-bbox="1126 710 1570 766"><b>Plants</b> What groups are plants classified in?</p> <p data-bbox="1126 805 1576 893"><b>Classification keys</b> What is classification? How do I use a key?</p> <p data-bbox="1126 933 1581 1029"><b>Environmental changes</b> What happens if the environment in a habitat changes?</p>	<p data-bbox="1646 413 1854 603">classification environment interdependence interact beneficial hierarchy</p>	<p data-bbox="1879 413 2024 603">vertebrate invertebrate biotic ecosystem species niche</p>

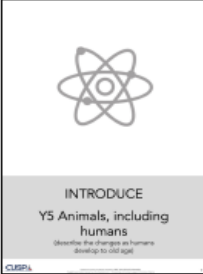
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p>Y4 States of matter</p> <p> </p>  <p>INTRODUCE Y4 States of matter</p>	<p>Chemistry*</p> <p> </p> <p>the study of the composition, behaviour and properties of matter</p>	<p>Y1 Everyday materials</p> <p>Y2 Use of everyday materials</p> <p>Y3 Forces and magnets</p>	<p>What is matter? What does 'state' mean?</p> <p>What are solids, liquids and gases?</p> <p><b>Melting:</b> how do materials change state?</p> <p><b>Evaporating:</b> how do materials change state?</p> <p><b>Condensing:</b> how do materials change state?</p> <p>Summary: how do materials change their state of matter?</p>	<p>permanent particle solid liquid gas vapour</p>	<p>evaporate condense melt matter state volume</p>

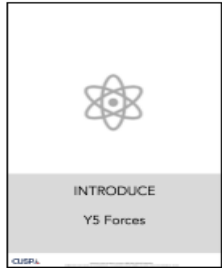
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p><b>Y4 Animals, including humans</b>  </p> 	<p><b>Biology</b>   The study of living things, including</p> <p><b>Structure</b> of digestive system</p> <p><b>Function</b> of digestive system</p> <p><b>Relationship</b> food chains</p>	<p><b>Y1 Plants</b></p> <p><b>Y1 Animals, including humans</b></p> <p><b>Y2 Living things and their habitats</b></p> <p><b>Y2 Plants</b></p> <p><b>Y3 Plants</b></p> <p><b>Y4 Living things and their habitats</b></p>	<p><b>Teeth and eating</b> What teeth do humans have? What do they do?</p> <p>How does our mouth and teeth help digestion? What's the process?</p> <p>Can teeth tell us what animals eat?</p> <p><b>The digestive system</b> What are the parts of the digestive system? What do they do?</p> <p>How does digestion work? What's the process?</p> <p><b>Food chains</b> What are food chains How do they work?</p> <p>How do I construct and interpret a food chain?</p> <p><b>SUMMARY</b> How are teeth, digestion and food chains connected?</p>	<p>expel compact digestion acid stomach intestines</p>	<p>incisor canine molar enzyme saliva peristalsis</p>

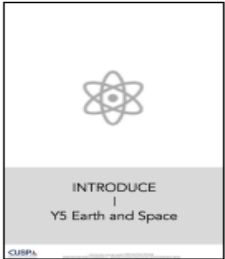
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p><b>Y4 Electricity I</b></p> 	<p>Physics*</p> <p> </p> <p>The study of energy</p> <p>forces</p> <p>mechanics</p> <p>waves</p> <p>structure of atoms</p> <p>physical universe</p> <p> </p> <p>Earth in Space</p>	<p>Y1 Seasonal changes</p> <p>Y1 Everyday materials</p> <p>Y2 Uses of everyday materials</p> <p>Y3 Forces and magnets</p>	<p><b>Sources of electricity</b> What appliances use electricity? What sort of power makes them work?</p> <p><b>Components</b> Name it - what are the components in a simple series circuit?</p> <p><b>Apply what you know</b> Diagnose it – what are the effects of changing circuit components and batteries?</p>	<p>associate</p> <p>identify</p> <p>portable</p> <p>effect</p> <p>appliance</p> <p>series</p>	<p>component</p> <p>electrical</p> <p>insulator</p> <p>electrical</p> <p>conductor</p> <p>circuit</p> <p>hypothesis</p> <p>variable</p>

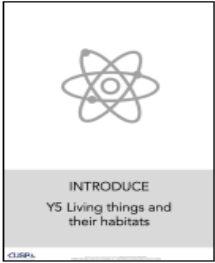
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p>Y4 Sound  </p> 	<p>Physics*   The study of energy forces mechanics waves structure of atoms physical universe   Earth in Space</p>	<p>Y1 Seasonal changes  Y1 Everyday materials  Y2 Uses of everyday materials  Y3 Forces and magnets  Y4 Electricity</p>	<p><b>Properties</b> What is sound?</p> <p><b>Movement</b> How does sound travel?</p> <p><b>Pitch and loudness</b> What is the pitch and loudness of sound?</p>	<p>produce property source frequent regular affect</p>	<p>vibrate pitch volume medium vacuum sound wave</p>

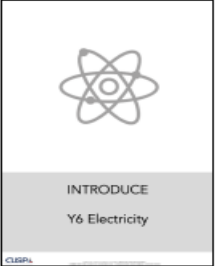
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p>Y5 Properties and changes of materials I</p> 	<p>Chemistry* I the study of the composition, behaviour properties of matter</p>	<p>Y1 Everyday materials Y2 Uses of everyday materials Y3 Rocks Y3 Light Y4 States of matter</p>	<p><b>Properties, mixtures and solutions</b> What properties do materials have? How do we use them?</p> <p>What is a mixture?</p> <p>What is a solution? (Solubility)</p> <p><b>Separation of materials</b> How can we separate materials from a mixture? (Sieving and filtration) How can we separate materials from a solution? (Evaporation)</p> <p><b>Reversible and irreversible change</b> What changes are reversible? What changes are irreversible?</p>	<p>property particle separate combine recover comparative</p>	<p>atom molecule chemical (changes) physical (changes) reversible reaction</p>

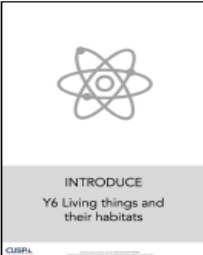
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p data-bbox="253 360 365 520">Y5 Animals, including humans I</p> 	<p data-bbox="499 360 589 384"><b>Biology</b></p> <p data-bbox="544 392 611 416">I</p> <p data-bbox="465 424 622 480">The study of living things</p> <p data-bbox="443 512 645 632"><b>Lifespan and life cycle Change and growth</b></p>	<p data-bbox="667 360 1037 384">Y1 Animals, including humans</p> <p data-bbox="667 424 1037 448">Y2 Animals, including humans</p> <p data-bbox="667 488 1037 512">Y3 Animals, including humans</p> <p data-bbox="667 552 1037 576">Y4 Animals, including humans</p>	<p data-bbox="1249 360 1305 384"><b>Life</b></p> <p data-bbox="1249 392 1585 416">What is the human timeline?</p> <p data-bbox="1249 456 1350 480"><b>Growth</b></p> <p data-bbox="1249 488 1541 544">How do we change into adults?</p> <p data-bbox="1249 584 1373 608"><b>Compare</b></p> <p data-bbox="1249 616 1574 671">How do human and animal lifespans compare?</p>	<p data-bbox="1619 360 1787 384">development</p> <p data-bbox="1619 392 1709 416">diverse</p> <p data-bbox="1619 424 1709 448">unique</p> <p data-bbox="1619 456 1753 480">generation</p> <p data-bbox="1619 488 1709 512">mature</p> <p data-bbox="1619 520 1742 544">equipped</p>	<p data-bbox="1809 360 1966 384">adolescence</p> <p data-bbox="1809 392 1910 416">puberty</p> <p data-bbox="1809 424 1933 448">gestation</p> <p data-bbox="1809 456 1910 480">embryo</p> <p data-bbox="1809 488 1899 512">foetus</p> <p data-bbox="1809 520 1899 544">womb</p>

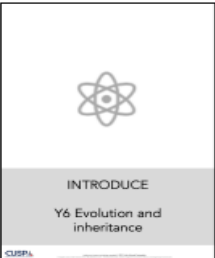
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p data-bbox="241 347 331 434">Y5 Forces  </p> 	<p data-bbox="448 347 627 663"> <b>Physics</b>     Matter  <b>Forces and motion</b>  Sound, light and waves  Electricity and <b>magnetism</b>  Earth in Space </p>	<p data-bbox="676 347 1008 373">Y3 Forces and magnetism</p> <p data-bbox="676 411 788 437">Y3 Light</p> <p data-bbox="676 475 922 501">Y4 States of matter</p> <p data-bbox="676 539 846 564">Y4 Electricity</p> <p data-bbox="676 603 801 628">Y4 Sound</p>	<p data-bbox="1187 347 1626 469"> <b>Non-contact and contact forces</b>  Remember gravity.  When is friction helpful and when is it not? </p> <p data-bbox="1187 507 1617 596"> <b>Resistance</b>  What is the effect of air resistance?  Air resistance investigation </p> <p data-bbox="1187 635 1491 692"> <b>Inspirational scientist</b>  Who was Galileo Galilei? </p> <p data-bbox="1187 730 1505 820"> <b>Resistance</b>  What's the effect of water resistance? </p> <p data-bbox="1187 858 1617 948"> <b>Levers, pulleys and gears</b>  How do levers help us?  How do pulleys and gears help us? </p>	<p data-bbox="1662 347 1796 533"> opposite  reaction  advantage  displace  weight  mass </p>	<p data-bbox="1863 347 1975 533"> pulley  gear  pivot  fulcrum  lever  upthrust </p>

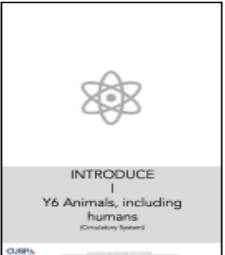
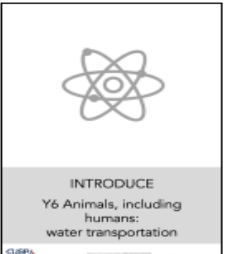
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p>Y5 Earth and Space  </p> 	<p>Physics   Matter Forces and motion Sound, light and waves Electricity and magnetism   Earth in Space</p>	<p>Y3 Forces and magnetism  Y3 Light  Y4 States of matter  Y4 Electricity  Y4 Sound  Y5 Forces</p>	<p>Position, relationship / movement of planets / spherical bodies. What are the planets in our solar system? (Planet comparison)</p> <p>How does the view of the Moon change in a solar month? (Moon phases, moon diaries)</p> <p><b>The effect of the Earth's rotation, tilt and orbit has on day, night and seasons.</b> Why does the rotation of the Earth result in day and night?</p> <p>Why is the Earth's tilt (axis) responsible for the seasons?</p>	<p>luminous phenomenon attraction approximately relative apparent</p>	<p>orbit axis crescent gravitational waxing waning</p>

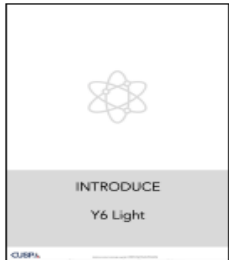
Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p>Y5 Living things and their habitats I</p> 	<p><b>Biology</b> I The study of living things, including</p> <p><b>Structure</b> <b>Order</b> <b>Life cycles</b> <b>Reproduction</b></p>	<p>Y1 Plants Y2 Plants Y3 Plants Y3 Living things and their habitats Year 4 Living things and their habitats</p>	<p>Mrs GREN – Recap of life processes</p> <p><u>Life Cycles</u> What’s the difference between a mammal and amphibian?</p> <p>What’s the difference between an insect and a bird?</p> <p>What is similar and what is different between the life cycle of a mammal, amphibian, insect and bird?</p> <p><u>Inspirational scientists</u> Who was Maria Merion and what did she do?</p> <p><u>Reproduction</u> How do living things reproduce?</p> <p>Plants and animals – what’s the life process of reproduction.</p>	<p>deduce process re-form transform adolescence contrast</p>	<p>embryo sexual metamorphosis incubate biochemical fertilisation</p>

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p><b>Y6 Electricity I</b></p> 	<p><b>Physics</b> I Matter</p> <p>Forces and motion Sound, light and waves <b>Electricity</b> and magnetism</p>	<p><b>Y1 Everyday materials (chem)</b></p> <p><b>Y2 Uses of everyday materials (chem)</b></p> <p><b>Y3 Light</b></p> <p><b>Y4 States of matter</b></p> <p><b>Y4 Sound</b></p> <p><b>Y4 Electricity</b></p> <p><b>Y5 Forces</b></p> <p><b>Y5 Earth in Space</b></p>	<p><u>Do-it</u> What is electricity? How does it work? How do we build and represent a series circuit? What are the components in a series circuit?</p> <p><u>Test-it</u> How does the number of cells and voltage affect components in a circuit?</p> <p><u>Diagnose-it</u> What are the effects and consequences of changing circuit components and batteries?</p>	<p>Component Consequence Systematic Represent Source Generate</p>	<p>Proton Neutron Electron Terminal Series Voltage</p>

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p>Y6 Living things and their habitats I</p> 	<p><b>Biology</b> I The study of living things, including</p> <p><b>Pioneering scientists</b> <b>Classification</b></p>	<p>Y1 Plants</p> <p>Y2 Plants</p> <p>Y3 Plants</p> <p>Y3 Living things and their habitats</p> <p>Year 4 Living things and their habitats</p> <p>Y5 Living thing and their habitats</p>	<p><b><u>Pioneering scientists</u></b> Who was the scientist Carl Linnaeus and what did he do?</p> <p><b><u>Classification</u></b> How do we classify vertebrates? How do we classify invertebrates we know? How do we classify invertebrates we don't know? How do we classify invertebrates we don't know?</p> <p><b><u>Apply</u></b> What animals can I classify? What animals and plants exist in my local environment?</p>	<p>Characteristic Interdependence Specific Categorise Primitive Hierarchy</p>	<p>Fungus Arthropod Taxonomy Kingdom Phylum Genus</p>

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p><b>Y6 Evolution and Inheritance I</b></p> 	<p><u>Biology</u> I The study of living things</p> <p><b>Change Evolution Adaption Environment</b></p>	<p>Y3 Plants</p> <p>Y4 Living things and their habitats</p> <p>Y5 Living things and their habitats</p> <p>Y6 Living things and their habitats</p>	<p><u>Change over time</u> How have living things changed over time? How do we know? How has life evolved over time?</p> <p><u>Biological change</u> What is DNA and what does it do? Are all offspring identical to their parents?</p> <p><u>Theories of evolution</u> Darwin and Wallace – what evidence did they share to argue the case for evolution? Survival of the fittest - how have animals adapted and evolved to suit their environment?</p>	<p>Characteristic Adaptation Acquire Theory Modify Generation</p>	<p>Evolve Survival Species Clone Inherit Fossil</p>

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p><b>Y6 Introduce animals, including humans</b></p>  	<p><b>Biology</b></p> <p>The study of living things</p> <p><b>Structure and function of the circulatory system</b></p> <p><b>Health and exercise</b></p>	<p><b>Y1 Animals, including humans</b> identify animals – mammal, reptile, bird, amphibian, fish</p> <p><b>Y2 Animals, including humans</b> Reproduction and basic needs</p> <p><b>Y3 Animals, including humans</b> Nutrition Structure of humans and animals</p> <p><b>Y4 Animals, including humans</b> Human digestion</p> <p><b>Y5 Animals, including humans</b> Lifespans and life cycles, growth and change</p>	<p><b>Blood and blood vessels</b> What is blood made of and why do we need it? Why do our bodies need nutrients and how are they transported? What is our circulatory system?</p> <p><b>The functions of the heart</b> What is our heart like inside? How does it work? Who influenced what we know about our circulatory system?</p> <p><b>The effect of exercise, drugs and lifestyle</b> What can we do to keep healthy? Present and explain what we know about the circulatory system, nutrients and keeping healthy.</p> <p><b>Digestion and circulation</b> Remember circulation and digestion: how are these two systems connected?</p> <p><b>Removal of waste</b> Where are the kidneys and what do they do?</p> <p><b>Keeping healthy</b> How do kidneys keep us healthy?</p>	<p>Cell Chamber System Circulation Vessel Clot Filter Expel Substance Function Regulate Transform</p>	<p>Plasma Platelet Artery Capillary Vein Ventricle Kidney Bladder Urine Excretion Toxin Nutrient</p>

Year group, Unit Title and Name	Substantive concept	Previous Learning	Big Ideas/Key Questions/Learning Foci	Tier 2 Vocabulary	Tier 3 Vocabulary
<p><b>Y6 Light</b></p> 	<p><b>Physics</b></p> <p> </p> <p>Matter</p> <p>Forces and motion</p> <p><b>Sound, light and waves</b></p> <p>Electricity and magnetism</p> <p> </p> <p><b>Earth in Space</b></p>	<p>Y1 Everyday materials</p> <p>Y2 Uses of everyday materials</p> <p>Y3 Light</p> <p>Y4 States of matter</p> <p>Y4 Sound</p> <p>Y4 Electricity</p> <p>Y5 Forces</p> <p>Y5 Earth in Space</p>	<p><b>Properties of light</b></p> <p>How does light travel?</p> <p>What colour is light made of?</p> <p><b>Reflection</b></p> <p>Reflection - how does light help us to see objects?</p> <p>Which surfaces make the best reflectors?</p> <p><b>Colour</b></p> <p>Why do we see objects as a particular colour?</p> <p><b>Refraction</b></p> <p>What happens to the appearance of objects when placed in water?</p>	<p>Impurity</p> <p>Emit</p> <p>Absorb</p> <p>Constituent</p> <p>Filter</p> <p>Artificial</p>	<p>Refraction</p> <p>Incidence</p> <p>Spectrum</p> <p>Prism</p> <p>Lux</p> <p>Piment</p>