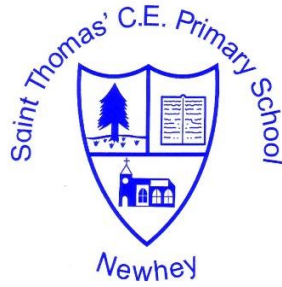


The Little School with the Big Heart

'With God All Things are Possible' Matthew 19:26

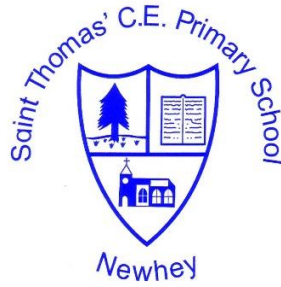
Science - plants				
KS1		KS2		
Class 1 (EYFS/Year)	Class 2 (Year 1/ Year 2)	Class 3 (Year 2/ Year 3)	Class 4 (Year 4/ Year 5)	Class 5 (Year 5/ Year 6)
<u>Year 1 Plants Olivia</u> Leaf Flower Blossom Petal Fruit Berry Root Seed Trunk Branch Stem Bark Stalk Bud Deciduous Evergreen	<u>Year 2 Plants Max</u> <i>As Year 1 plus</i> Light Shade Sun Warm Cool Water Grow healthy	<u>Year 3 plants Max</u> <i>As KS1 plus</i> Photosynthesis Pollen Insect pollination Wind pollination Seed formation seed dispersal – wind dispersal, animal dispersal, water dispersal	<u>Year 4 Living things and their habitats Chaya</u> <i>As KS1 and Year 3 plus</i> Alder Beech Oak Sycamore Holly Elder Ash Birch Horse chestnut Field maple Hawthorn Hazel Rowan	<u>Year 5 Living things and their habitats Melissa</u> <i>As KS1 and Year 3, 4 plus</i> Life cycle Reproduce Fertilises Plantlets Runners Bulbs Cuttings <u>Additional</u> <i>Sepals Carpels Nectaries Stamens</i>



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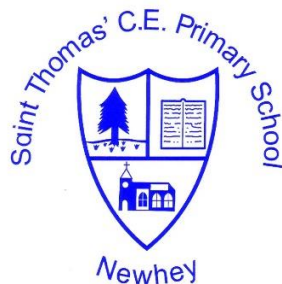
Science – Earth and Space				
KS1		KS2		
Class 1 (EYFS/Year)	Class 2 (Year 1/ Year 2)	Class 3 (Year 2/ Year 3)	Class 4 (Year 4/ Year 5)	Class 5 (Year 5/ Year 6)
<p><u>Year 1</u> <u>Seasonal changes</u> <u>Olivia</u> Weather (sunny, rainy, windy, snowy etc.) Seasons (winter, summer, spring, autumn) Sun Sunrise Sunset Day length</p>	<p><u>Year 2</u> <u>Seasonal changes</u> <u>Ryan</u> Weather (sunny, rainy, windy, snowy etc.) Seasons (winter, summer, spring, autumn) Sun Sunrise Sunset Day length</p>	<p><u>Year 3</u></p>	<p><u>Year 4</u></p>	<p><u>Year 5</u> <u>Earth and space</u> <u>Melissa</u> As KS1 and Class 3 Plus Earth Sun Moon Mercury, Jupiter Saturn Venus Mars Uranus Neptune Spherical Solar system Rotates, Star Orbits, Planets, Axis</p>



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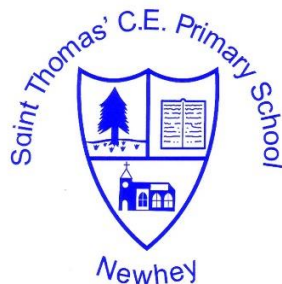
Science Animals Classification and Needs				
KS1		KS2		
Class 1 (EYFS/Year)	Class 2 (Year 1/ Year 2)	Class 3 (Year 2/ Year 3)	Class 4 (Year 4/ Year 5)	Class 5 (Year 5/ Year 6)
<p><u>Year 1</u> <u>Animals</u> <u>including</u> <u>humans</u> <u>Eva</u></p> <p>Head, body Eyes ears, mouth, teeth leg tail wing claw fin scales, feathers fur beak, paws, hooves</p>	<p><u>Year 2</u> <u>Animals including</u> <u>humans</u> <u>Zunairah</u> As Year 1 plus</p> <p>carnivores, herbivores omnivores <u>Additional</u> <u>fish, amphibians,</u> <u>reptiles, birds and</u> <u>mammals</u></p>	<p><u>Year 3</u> <u>Animals</u> <u>including</u> <u>humans</u> <u>Max</u> As KS1 plus</p> <p>Nutrition nutrients, carbohydrates sugars protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, support, protect, skull, ribs, spine, muscles, joints</p>	<p><u>Year 4</u> <u>Animals</u> <u>including</u> <u>humans</u> <u>Douglas</u> As KS1 and Year 3 plus</p> <p>Digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, nutrients, large intestine, rectum, anus, teeth, incisor, canine, molar, premolars, herbivore, carnivore, omnivore, producer, predator, prey, food chain</p>	<p><u>Year 5</u> <u>Animals</u> <u>including</u> <u>humans and</u> <u>their habitats</u> <u>Charlotte</u> As KS1 and Class 4/5 plus Life cycle, reproduce, sexual, sperm, fertilises, egg, live young, metamorph osis, asexual, plantlets, runners, bulbs, cuttings</p>



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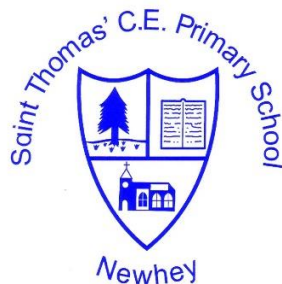
Science: Materials				
KS1		KS2		
Class 1 (EYFS/Year)	Class 2 (Year 1/ Year 2)	Class 3 (Year 2/ Year 3)	Class 4 (Year 4/ Year 5)	Class 5 (Year 5/ Year 6)
<p style="text-align: center;"><u>Year 1</u> <u>Everyday materials</u> <u>Tahmeed</u></p> <p>Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see through, not see through</p>	<p style="text-align: center;"><u>Year 2</u> <u>Everyday materials</u> <u>Glory</u></p> <p style="text-align: center; color: red;">As Year 1 plus</p> <p>Materials – wood, plastic, glass, metal, water, rock, brick, paper, fabric, card, rubber</p> <p>Properties – rough/smooth, flexible/rigid, strong/weak, reflective/non-reflective, transparent/translucent/opaque</p> <p>Changing Shape - squashing, bending, twisting and stretching, pushing and pulling</p>	<p style="text-align: center;"><u>Year 2</u> <u>Everyday materials</u> <u>Gearnley</u> <u>Year 3</u> <u>Rocks</u> <u>Max</u></p> <p style="text-align: center; color: red;">As KS1 Plus</p> <p>Rock, stone, pebble, boulder, grain, crystals, layers, hard, soft, texture, absorb water, soil, fossil, marble, chalk, granite, sandstone, slate, peat, sandy chalk, clay</p>	<p style="text-align: center;"><u>Year 4</u> <u>Changes of matter</u></p> <p>Chaya Solid, liquid, gas, state change, melting, freezing, melting point, boiling point, evaporation, temperature water cycle</p> <p style="text-align: center;"><u>Year 5 Materials and their properties</u> <u>Mellissa</u> <u>?????</u></p> <p style="text-align: center;"><u>Year 5 Materials and their properties</u> <u>Mellissa</u></p> <p>Thermal/electrical insulator/conductor, change of state, mixture, dissolve, solution, soluble, insoluble, filter, sieve reversible/non-reversible change, burning, rusting, new material</p>	<p style="text-align: center;"><u>Year 5</u> <u>Year 5</u> <u>Materials and their properties</u> <u>Mellissa</u> <u>?????</u></p>



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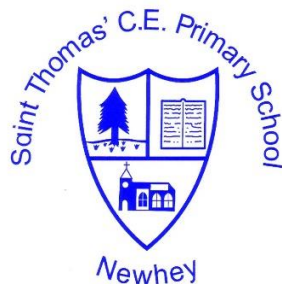
Science: Forces and magnets				
KS1		KS2		
Class 1 (EYFS/Year)	Class 2 (Year 1/ Year 2)	Class 3 (Year 2/ Year 3)	Class 4 (Year 4/ Year 5)	Class 5 (Year 5/ Year 6)
<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u> <u>Forces and magnets</u> <u>Max</u> Force, push, pull, twist, contact force, non-contact force, magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole	<u>Year 5</u> <u>Forces</u> <u>Melissa</u> As Year 3 Plus Force, gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears	<u>Year 5</u> As KS2 plus



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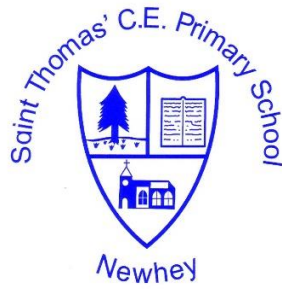
Science: Light and sound				
KS1		KS2		
Class 1 (EYFS/Year)	Class 2 (Year 1/ Year 2)	Class 3 (Year 2/ Year 3)	Class 4 (Year 4/ Year 5)	Class 5 (Year 5/ Year 6)
<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u> <u>Light</u> <u>Johnny</u>	<u>Year 4</u> <u>Sound</u> <u>Hamra</u>	<u>Year 6</u> <u>Light</u> <u>Muharem</u> <i>As Year 3 plus</i>
		Light source Dark Absence of light Transparent Translucent Opaque Shiny Matt Surface Shadow Reflect Mirror Sunlight Dangerous	sound, source, vibrate, vibration, travel, pitch (high, low), volume, faint, loud, insulation	Straight lines, Light rays.



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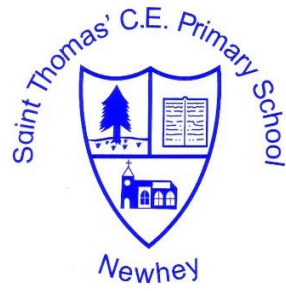
Science: Electricity				
KS1		KS2		
Class 1 (EYFS/Year)	Class 2 (Year 1/ Year 2)	Class 3 (Year 2/ Year 3)	Class 4 (Year 4/ Year 5)	Class 5 (Year 5/ Year 6)
<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u> <u>Electricity</u> <u>Dougal</u> Electricity, electrical appliance/device, mains, plug, electrical circuit, complete circuit, component, cell, battery, positive, negative, connect/connections, loose connection, short circuit, crocodile clip, bulb, switch, buzzer, motor, conductor, insulator, metal, non-metal, symbol <i>N.B. Children in year 4 do not need to use standard symbols as this is taught in year 6</i>	<u>Year 6</u> <u>Electricity</u> <u>Julie</u> Circuit, complete circuit, circuit diagram, circuit symbol, cell, battery, bulb, buzzer, motor, switch, voltage <i>NB Children do not need to understand what voltage is but will use volts and voltage to describe different batteries. The words cells and batteries are now used interchangeably</i>



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Science: Evolution and inheritance				
KS1		KS2		
Class 1 (EYFS/Year)	Class 2 (Year 1/ Year 2)	Class 3 (Year 2/ Year 3)	Class 4 (Year 4/ Year 5)	Class 5 (Year 5/ Year 6)
<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Evolution and Inheritance</u> <u>Year 6</u> Offspring, sexual reproduction, vary, characteristics, suited, adapted, environment, inherited, species, fossils



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