



# Giles Junior KS2 Science Annual Curriculum Overview

Year 3					
Scientific enquiry should include: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing (controlled investigations); and researching using secondary sources.					
Autumn		Spring		Summer	
1	2	1		2	
Animals including Humans	Forces	Light		Rocks	
<b>Recommended reads and Trip suggestions for Parents</b>					
<p><i>Recommended Reads</i></p> <p>Human and Animal Bodies by Angela Royston</p> <p><b>Cross Curricular Link Book</b> Handa's Surprise</p> <p><i>Recommended Website</i></p> <p><a href="https://www.rkfpadout.com/uk/humanbody/skeletonsand-bones/">https://www.rkfpadout.com/uk/humanbody/skeletonsand-bones/</a></p> <p><i>Recommended Trips</i> <b>Herts catering workshop – Healthy Foods!</b></p> <p>Look at the nutritional labels in the supermarket during a weekly shop</p>	<p><i>Recommended Reads</i></p> <p>Forces and Magnets (Moving up with Science) by Philip Riley)</p> <p><b>Cross Curricular Link Book</b> The Iron Man</p> <p><i>Recommended Websites</i></p> <p><a href="http://interactivesites.weebly.com/plants.html">http://interactivesites.weebly.com/plants.html</a></p> <p><i>Recommended Trips</i></p> <p>Look at the solar system exhibition in the Royal Museum in Greenwich</p>	<p><i>Recommended Reads</i></p> <p>KS2 Science Year Three Workout: Light &amp; Forces (CGP KS2 Science)</p> <p><b>Cross Curricular Link Book</b></p> <p>The Firework Makers Daughter by Philip Pullman</p> <p><i>Recommended Websites</i></p> <p><a href="https://www.stem.org.uk/resources/community/collection/12723/you3/light">https://www.stem.org.uk/resources/community/collection/12723/you3/light</a></p>		<p><i>Recommended Reads</i></p> <p>Everything Rocks and Minerals: Dazzling gems of photos and info that will rock your world by Steve Tomecek</p> <p><b>Cross Curricular Link Book</b> The Pebble in my pocket</p> <p><i>Recommended Website</i></p> <p><a href="https://www.bbc.co.uk/1/series/z/topics/z/9bbkq/">https://www.bbc.co.uk/1/series/z/topics/z/9bbkq/</a></p> <p><i>Recommended Trips</i></p> <p>Explore the Science Museum in London (Mineralogy Collection)</p>	<p><i>Recommended Reads</i></p> <p>KS2 Science – Plants and Animals in their habitats – CGP Books Plants (Science in infographics) by Jon Richardson All about plants by Nichola Tyrell <b>Cross Curricular Link Book</b> Little Red Riding Hood Jack and the beanstalk / Jess and the Bean Root</p> <p><i>Recommended Trips</i></p> <p>Rushmere Country Park Cambridge Botanic Gardens</p>
Year 4					
Scientific enquiry should include: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing (controlled investigations); and researching using secondary sources.					
Autumn		Spring		Summer	
1	2	1	2	1	
Animals including Humans	Sound	States of matter	Electricity	Living things and their habitats	
<b>Recommended reads and Trip suggestions for Parents</b>					
<p><i>Recommended Reads</i></p> <p>Animal Classification (Life Science Stories) by Angela Royston</p> <p><b>Cross Curricular Link Book</b></p> <p>The Little Mole who knew it was none of his business</p> <p><b>Herts catering workshop – Healthy Foods/Make smoothies via cycle machine – organised in school</b></p> <p><i>Recommended Websites</i></p> <p><a href="https://www.stem.org.uk/resources/community/collection/12365/you4-animalsincludinghumans">https://www.stem.org.uk/resources/community/collection/12365/you4-animalsincludinghumans</a></p>	<p><i>Recommended reads:</i></p> <p>Sound-CGP Making with Sound Anna Claybourne</p> <p><b>Cross Curricular Link Book</b></p> <p>Horrid Henry Rocks</p> <p><i>Recommended Websites</i></p> <p><a href="http://www.bbc.co.uk/education/topics/zqjfr82">http://www.bbc.co.uk/education/topics/zqjfr82</a> <a href="http://www.educationquizzes.com/ks2/science/sound/">http://www.educationquizzes.com/ks2/science/sound/</a></p>	<p><i>Recommended reads:</i></p> <p>States of matter-CGP What Is a Gas? by Jennifer Boothroyd Solids, Liquids, And Gases by Ginger Garrett JoeJoe the Wizard Brews Up Solids, Liquids, and Gases by Eric Braun Solids, Liquids and Gases by the Ontario Science Centre</p> <p><b>Cross Curricular Link Book</b> Charlie and the Chocolate Factory</p> <p><i>Recommended Websites</i></p> <p><a href="https://www.theschoolrun.com/what-are-states-of-matter">https://www.theschoolrun.com/what-are-states-of-matter</a> <a href="http://www.bbc.co.uk/bitesize/ks2/science/materials/solids_liquids_gases/read/1/">http://www.bbc.co.uk/bitesize/ks2/science/materials/solids_liquids_gases/read/1/</a> <a href="http://www.primaryresources.co.uk/science/science3a.htm">http://www.primaryresources.co.uk/science/science3a.htm</a> <a href="https://www.everyschool.co.uk/science-keystage-2/habitats.html">https://www.everyschool.co.uk/science-keystage-2/habitats.html</a></p>		<p><i>Recommended reads:</i></p> <p>Electricity-CGP Electricity (Science ... in a Flash) Georgia Amson-Bradshaw Electricity (Straight Forward with Science) Peter Riley Your Digestive System Works! (Your Body Systems) Flora Brett</p> <p><i>Recommended Websites</i></p> <p><a href="http://www.bbc.co.uk/education/topics/z27kng8">http://www.bbc.co.uk/education/topics/z27kng8</a> <a href="http://www.ducksters.com/science/digestive_system.php">http://www.ducksters.com/science/digestive_system.php</a> <a href="https://www.topmarks.co.uk/Interactive.aspx?cat=72">https://www.topmarks.co.uk/Interactive.aspx?cat=72</a> <a href="http://www.educationquizzes.com/ks2/science/electricalcircuits/">http://www.educationquizzes.com/ks2/science/electricalcircuits/</a></p>	<p><i>Recommended Reads</i></p> <p>Welcome to the Woodland (Living Things &amp; Their Habitats) by Ruth Owen</p> <p>KS2 Science Year Four Workout: Living Things &amp; Habitats (CGP KS2 Science)</p> <p><b>Cross Curricular Link Book</b> The Gruffallo</p> <p><i>Recommended Trips</i></p> <p>The Gruffallo Trail</p> <p><i>Recommended Websites</i></p> <p><a href="https://www.stem.org.uk/resources/community/collection/1274/you-4-livingthingsandtheir-habitats">https://www.stem.org.uk/resources/community/collection/1274/you-4-livingthingsandtheir-habitats</a></p>

Lower Key Stage 2



# Giles Junior KS2 Science Annual Curriculum Overview

Year 5

Scientific enquiry should include: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing (controlled investigations); and researching using secondary sources.

Autumn		Spring		Summer	
1	2	1	2	1	2
Animals including Humans	Forces	Earth and Space	Properties and changes of materials	Living things and their habitats	

Recommended reads and Trip suggestions for Teachers and Parents

<p><b>Recommended Read:</b> Science Experiments by Robert Winston Usborne book of life, growing up (adolescence, body changes and sexual reproduction)</p> <p><b>Cross Curricular Link Book</b> Once there were giants</p> <p><b>Recommended Websites:</b> <a href="http://www.bbc.co.uk/education/clips/zpmqxb">http://www.bbc.co.uk/education/clips/zpmqxb</a></p> <p><b>Recommended Trips:</b> Science Museum - London</p>	<p><b>Recommended Reads</b> KS2 Science Year Five Workout: Forces &amp; Mechanical Devices – CGP Books Forces and Magnets (Moving up with Science) by Peter Riley</p> <p><b>Cross Curricular Link Book</b> The Tin Snail</p> <p><b>Recommended Websites:</b> <a href="http://www.bbc.co.uk/education/topics/zmma39">http://www.bbc.co.uk/education/topics/zmma39</a></p>	<p><b>Recommended Read:</b> Earth and Space Year 5 Workout CGP Books</p> <p><b>Cross Curricular Link Book</b> George's Secret Key to the Universe by Lucy and Stephen Hawking</p> <p><b>Recommended Websites:</b> <a href="https://www.esa.int/esaKIDSen/">https://www.esa.int/esaKIDSen/</a> <a href="https://www.stem.org.uk/resources/elibrary/resource/36134/life-cycles">https://www.stem.org.uk/resources/elibrary/resource/36134/life-cycles</a></p> <p><b>Recommended Trips:</b> National Space Centre – Leicester</p>	<p><b>Recommended Read:</b> CPG – Materials and their Properties (Amazon)</p> <p><b>Cross Curricular Link Book</b> Itch Kensuke's Kingdom</p> <p><b>Recommended Websites:</b> <a href="https://www.topmarks.co.uk/Interactive.aspx?cat=70">https://www.topmarks.co.uk/Interactive.aspx?cat=70</a></p> <p><b>Recommended Trip:</b> Kirkaldy Testing Museum – Southwark Street, London</p>	<p><b>Recommended Read:</b> How Plants Reproduce By Judy Gray Primates: The Fearless Science of Jane Goodall, Dian Fossey and Birute Galdikas by Jim Ottaviani The Animal Life Cycle (Earth's Cycles) by Cheryl Jakab</p> <p><b>Cross Curricular Link Book</b> Charlotte's Web</p> <p><b>Recommended Websites:</b> <a href="https://www.stem.org.uk/resources/community/collection/12775/year-5-living-things-and-their-habitats">https://www.stem.org.uk/resources/community/collection/12775/year-5-living-things-and-their-habitats</a></p>
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Year 6 - Scientific enquiry should include: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing (controlled investigations); and researching using secondary sources.

Autumn		Spring		Summer	
1	2	1	2	2	
Animals inc Humans	Evolution	Light	Electricity	Living things and their habitats	

Recommended reads and Trip suggestions for Teachers and Parents

<p><b>Recommended Reads</b> Classification and Evolution by Peter Riley</p> <p><b>Cross Curricular Link Book</b> Pig Heart Boy One Smart Fish</p> <p><b>Recommended Websites</b> <a href="http://www.bbc.co.uk/education/topics/zubhuw">http://www.bbc.co.uk/education/topics/zubhuw</a></p> <p><b>Recommended Trips</b> The Natural History Museum in London or Tring The Zoo (ZSL or Whipsnade)</p>	<p><b>Recommended Reads</b> The 'What on Earth?' wall timeline By Christopher Lloyd</p> <p><b>What is evolution?</b> By Louise Spilsbury</p> <p><b>Recommended Website</b> <a href="http://www.bbc.co.uk/guides/z9qs4qt">http://www.bbc.co.uk/guides/z9qs4qt</a></p>	<p><b>Recommended Reads</b> Key Stage Two Science: The Study Book [Book] by CPG</p> <p>KS2 Science revision guide by Schofield and Sims</p> <p><b>Cross Curricular Link Book</b></p> <p>Goodnight Mr Tom</p>	<p><b>Recommended Reads</b> Look inside: Your body by Louie Stowell and Kate Leake</p> <p>Knowledge Encyclopaedia Human Body by DK Publishing</p> <p><b>Cross Curricular Link Book</b> Beetle Boy</p> <p><b>Recommended Websites</b> <a href="http://www.bbc.co.uk/education/topics/zcyycdm">http://www.bbc.co.uk/education/topics/zcyycdm</a></p> <p><b>Recommended Trips</b> The Science Museum, London – Your Body</p>
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Upper Key Stage 2