

## Key Stage 3 Curriculum Map 2019 - 2020

### Term 1

Subject: Science		Year Group: 7		
Week/Date	Focus/Topic	Objectives	Key Skills	Home Learning/Resources
1 Sept 2 <sup>nd</sup> -5 <sup>th</sup>	<ul style="list-style-type: none"> <li>Baseline assessments, curriculum orientation and expectations</li> </ul>			
2 Sept 8 <sup>th</sup> -12 <sup>th</sup>	<ul style="list-style-type: none"> <li>Hazard symbols</li> <li>Scientific drawing</li> </ul>	<ul style="list-style-type: none"> <li>To identify hazard symbols and explain why lab safety is important</li> <li>To be able to identify and draw scientific equipment</li> </ul>	<ul style="list-style-type: none"> <li>Recall, working scientifically</li> </ul>	<ul style="list-style-type: none"> <li>Begin forces home learning project</li> </ul>
3 Sept 15 <sup>th</sup> -19 <sup>th</sup>	<ul style="list-style-type: none"> <li>Risk assessment</li> <li>Bunsen burner license</li> </ul>	<ul style="list-style-type: none"> <li>To write a risk assessment for practical's</li> <li>To set up and use a bunsen burner safely</li> </ul>	<ul style="list-style-type: none"> <li>Working scientifically, application</li> </ul>	<ul style="list-style-type: none"> <li>Continue with forces home learning project</li> </ul>
4 Sept 22 <sup>rd</sup> -26 <sup>th</sup>	<ul style="list-style-type: none"> <li>Lab safety presentations and posters</li> </ul>	<ul style="list-style-type: none"> <li>To make a lab safety video or poster to show primary school students how to work safely in a lab</li> </ul>	<ul style="list-style-type: none"> <li>Recall, application and working scientifically</li> </ul>	<ul style="list-style-type: none"> <li>Continue with forces home learning project</li> <li>Complete lab safety posters and videos to enter the science competition</li> </ul>
5 Sept 29 <sup>th</sup> -Oct 3 <sup>rd</sup>	<ul style="list-style-type: none"> <li>Variables and types of graphs</li> <li>The bouncy ball practical</li> </ul>	<ul style="list-style-type: none"> <li>To be able to identify different variables and know when to use different graphs</li> <li>To carry out the bouncy balls practical safely and write a prediction, hypothesis, method, line graph and risk assessment for the practical</li> </ul>	<ul style="list-style-type: none"> <li>Working scientifically, numeracy skills</li> </ul>	<ul style="list-style-type: none"> <li>Continue with forces home learning project</li> </ul>

6 Oct 6 <sup>th</sup> -10 <sup>th</sup>	<ul style="list-style-type: none"> <li>Investigating heart rate</li> </ul>	<ul style="list-style-type: none"> <li>To carry out investigating heart rate practical and do a write up for the practical with an appropriate bar graph.</li> </ul>	<ul style="list-style-type: none"> <li>Working scientifically, numeracy skills</li> </ul>	<ul style="list-style-type: none"> <li>Continue with forces home learning project</li> <li>Complete graphs at home with the graph checklist</li> </ul>
7 Oct 13 <sup>th</sup> -17 <sup>th</sup>	<ul style="list-style-type: none"> <li>Rate of reaction practical</li> </ul>	<ul style="list-style-type: none"> <li>To carry out the rate of reaction practical safely and write a prediction, hypothesis, method, line graph and risk assessment for the practical</li> </ul>		<ul style="list-style-type: none"> <li>Finish forces home learning project</li> </ul>
8 Oct 20 <sup>th</sup> -24 <sup>th</sup>	Mid Term Break			
9 Oct 27 <sup>th</sup> -Oct 31 <sup>st</sup>	<ul style="list-style-type: none"> <li>Intro to forces, contact &amp; non-contact forces</li> <li>Balanced and unbalanced forces</li> </ul>	<ul style="list-style-type: none"> <li>To explain the differences between contact and non-contact forces. To label force diagrams</li> <li>To identify when forces are balanced or unbalanced by calculating resultant force</li> </ul>	<ul style="list-style-type: none"> <li>Recall, numeracy skills and application</li> </ul>	<ul style="list-style-type: none"> <li>Start solids, liquids and gases home learning project</li> </ul>
10 Nov 3 <sup>rd</sup> -7 <sup>th</sup>	<ul style="list-style-type: none"> <li>Drag forces</li> <li>Drag forces: air resistance</li> </ul>	<ul style="list-style-type: none"> <li>To describe effect of drag and describe ways to reduce drag on a moving object</li> <li>To evaluate the effectiveness of different parachute designs and explain why they were more/less effective</li> </ul>	<ul style="list-style-type: none"> <li>Working scientifically, recall and application</li> </ul>	<ul style="list-style-type: none"> <li>Continue solids, liquids and gases home learning project</li> </ul>
11 Nov 10 <sup>th</sup> -14 <sup>th</sup>	<ul style="list-style-type: none"> <li>Friction</li> <li>Pressure</li> </ul>	<ul style="list-style-type: none"> <li>Investigate the effect of mass on the force needed to overcome friction</li> <li>Understand what pressure is and how to change it as well.</li> </ul>	<ul style="list-style-type: none"> <li>Working scientifically, application</li> </ul>	<ul style="list-style-type: none"> <li>Continue solids, liquids and gases home learning project</li> </ul>
12 Nov 17 <sup>th</sup> -21 <sup>st</sup>	<ul style="list-style-type: none"> <li>Properties of solids, liquids and gases</li> <li>Change of state</li> </ul>	<ul style="list-style-type: none"> <li>Explain the changes in state</li> <li>Draw a graph showing the changes in state</li> </ul>	<ul style="list-style-type: none"> <li>Numeracy skills, recall</li> </ul>	

<p>13 Nov 24<sup>th</sup>-28<sup>th</sup></p>	<ul style="list-style-type: none"> <li>Density (numeracy focus)</li> <li>Diffusion</li> </ul>	<ul style="list-style-type: none"> <li>Investigate the density of different objects</li> <li>Understand the process of diffusion</li> </ul>	<ul style="list-style-type: none"> <li>Numeracy skills, recall and working scientifically</li> </ul>	<ul style="list-style-type: none"> <li>Continue solids, liquids and gases home learning project</li> </ul>
<p>14 Dec 1<sup>st</sup> -5<sup>th</sup></p>	<ul style="list-style-type: none"> <li>Dissolving</li> </ul>	<ul style="list-style-type: none"> <li>Explaining what dissolving is and what are the different factors that may affect it</li> </ul>	<ul style="list-style-type: none"> <li>Working scientifically, recall and application</li> </ul>	
<p>15 Dec 8<sup>th</sup>-12<sup>th</sup></p>	<ul style="list-style-type: none"> <li>Revision lessons</li> </ul>	<ul style="list-style-type: none"> <li>Reflecting on learning throughout term</li> </ul>	<ul style="list-style-type: none"> <li>Revisiting all science skills</li> </ul>	<ul style="list-style-type: none"> <li>Finish solids, liquids and gases home learning project</li> </ul>
<p>Winter Break: December 13<sup>th</sup> – January 2<sup>nd</sup></p>				