



## TSS Primary Science MTP 2022-2023 Year 6 Block 2 – Biology

Key Targets and Learning Objectives	Key Activities	Equipment
<ul style="list-style-type: none"><li>• Describe the human circulatory system in terms of the heart pumping blood through arteries, capillaries and veins, describe its function (limited to transporting oxygen, nutrients and waste) and know that many vertebrates have similar circulatory systems</li><li>• Describe the human respiratory system in terms of oxygen from the air moving into the blood in the lungs and know that many vertebrates have a similar respiratory system</li><li>• Name the parts of the human reproductive system</li><li>• Describe the physical changes that take place during puberty in humans</li><li>• Know that some diseases can be caused by infection with viruses, bacteria, parasites or fungi that can be passed from one host to another</li><li>• Describe how good hygiene can control the spread of diseases transmitted in water, food and body fluids, and describe ways to avoid being bitten by insect vectors</li><li>• Know that humans have defence mechanisms against infectious diseases, including skin, stomach acid and mucus</li><li>• Interpret food webs and identify food chains within them</li><li>• Know that some substances can be toxic and damage living things, and that these substances can move through a food chain/web</li><li>• Identify the energy source of a food chain/web and describe how energy is transferred through a food chain/web</li></ul>	<p>Lesson 1 – Act out the circulatory system. Use red and blue cards to represent the oxygenated and deoxygenated blood. Chn describe and annotate a diagram.</p> <p>Lesson 2 – Similarities and differences between vertebrates in terms of circulatory and respiratory systems</p> <p>Lesson 3 – investigation into heartrates</p> <p>Lesson 4 – Horrible histories style – looking at diseases. How we have managed to stop them (sorting activity) – immune, drugs, new drugs (vaccinations).</p> <p>Lesson 5 – Create a helpful poster about how to stop the spread of infections and diseases. Use paint on hands to see the handwashing effect.</p> <p>Lesson 6 – Create food chains / webs and show how toxins can make their way through them</p> <p>STEM activity – Imagine there is toxic waste, and they need to remove it from a dangerous area. How can they move it? Similar to this: <a href="https://stemactivitiesforkids.com/2015/12/10/team-building-for-stem-challenges/">https://stemactivitiesforkids.com/2015/12/10/team-building-for-stem-challenges/</a></p>	<ul style="list-style-type: none"><li>• Card</li><li>• Ipads</li><li>• String</li><li>• Slime</li><li>• Tubs</li><li>• Paint</li><li>• Soap</li></ul>



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<b>• Sort, group and classify objects, materials and living things through testing, observation and using secondary information (WS)</b>			
<b>Key vocabulary</b>	<b>Going Green Link</b>	<b>Integration of technology</b>	
Biology, circulatory system, respiratory system, arteries, capillaries, veins, nutrients, viruses, bacteria, parasites, fungi, immune system	- Look at how plastics get into our food chain and ways to combat it	- Use of iPads for research and presentation of ideas	