

# ASDAN Science Syllabus

The Human Machine	Forces and Motion	Chemical Change
<ul style="list-style-type: none"> <li>• All about the eye, experimenting with pupil size</li> <li>• The electromagnetic spectrum . Using an infra-red app to measure skin temperature</li> <li>• Sound and the human ear. Designing ear defenders</li> <li>• Our immune system and investigating pathogens and germs.</li> </ul>	<ul style="list-style-type: none"> <li>• All about Newton's Laws, forces, energy and work</li> <li>• Designing, constructing and testing vehicles powered by elastic bands.</li> </ul>	<ul style="list-style-type: none"> <li>• Acids and Bases. Investigating pH of household substances using homemade indicators</li> <li>• All about the Periodic Table. Investigating the reactivity of Group I Alkali Metals</li> <li>• Combustion</li> <li>• Understanding the role of enzymes in our body, investigating catalase.</li> </ul>
Biological Challenges	Space Physics	Performance in Sport
<ul style="list-style-type: none"> <li>• The basic structure of a flower, plant lifecycle, pollination and fertilisation</li> <li>• The process of photosynthesis and taking part in an experiment investigating it</li> <li>• Undertaking an experiment to investigate the effects of talking to our plants</li> </ul>	<ul style="list-style-type: none"> <li>• All about our Solar System and the planets within it</li> <li>• All about stars and our constellations.</li> <li>• The Moon and its effect on Earth . Creating a stop motion about lunar cycles</li> <li>• Observing Space -using the School's Observatory to investigate our Solar System</li> </ul>	<ul style="list-style-type: none"> <li>• The structure and function of our heart, blood vessels and the heart sounds. Investigating how exercise affects our heart rate</li> <li>• The structure and function of our brain and neurones. investigating the effect of exercise on our brain function</li> </ul>

# **Assessment methods**

- **All work is internally assessed. There are no examinations. Assessment can be flexible and designed to suit each learner**
- **Examples of assessment methods include posters, PowerPoints, Verbal presentations, leaflets, videos etc.**
- **The use of scribes is perfectly acceptable**
- **Please note all challenges can be adapted to suit each individual learner**
- **All learners receive an ASDAN Certificate upon completion of the course**