

SUPER-CURRICULAR ACTIVITIES

SCIENCE: PHYSICS Year 9

 <p>Read a book written by a prominent Physicist, try: Stephen Hawking; Richard Feynman; Jim Al-Khalili.</p>	 <p>Read some articles from the Young Scientists Journal. Follow Link 1 (below)</p>	 <p>Research the work of women in space – you could start with: Valentina Tereshkova; Sally Ride; Samantha Cristoforetti; Helen Sharma.</p>
 <p>Research the discoveries that have been made following experiments and CERN.</p>	 <p>Watch 'Smarter Every Day' on YouTube (the rocket factory tour is a good start.)</p>	 <p>Watch a selection from the Royal Institution YouTube videos (Quantum Physics, Rollercoaster Science and more.)</p>
 <p>Explore Veritasium (try some of the puzzles.)</p>	 <p>Listen to the Infinite Monkey Cage Podcast on BBC Radio 4. Follow Link 2 (below)</p>	 <p>Listen to 13 Minutes to the Moon from the BBC World Service. Follow Link 3 (below)</p>
 <p>Explore Physics Made Simple from the BBC World Service. Follow Link 4 (below)</p>	 <p>Conduct an experiment to investigate the effect of parachute size on how long an object takes to fall a fixed distance. You can use bin bags to make the parachute.</p>	 <p>Make a model house out of cardboard with working lights. You can use tinfoil for wires and LEDs can be purchased cheaply online.</p>
 <p>Write a piece for the Young Scientists Journal, more information about the type of writing you can do can be found on the website. Follow Link 1 (below)</p>	 <p>Write the diary of an astronaut on their way to another planet. They will be in a confined environment with the same people for a long period of time. Any communications with home will take longer and longer to complete (messages take between 4 and 24 minutes between Earth and Mars, depending on orbital locations.)</p>	 <p>Host an online hangout with your friends to revise a specific topic area.</p>
 <p>Visit the Science Museum in London and explore the space gallery. Follow Link 5 (below)</p>	 <p>Visit a local steam railway to find out how the locomotives work. Follow Link 6 (below)</p>	 <p>Visit a dark sky area at night and use an App like google sky to help you identify celestial objects.</p>

Links to websites used in this Super-Curricular Activities sheet:

Link 1: <https://ysjournal.com/>

Link 2: <https://www.bbc.co.uk/programmes/p0863lfn>

Link 3: <https://www.bbc.co.uk/programmes/w3ct0pc6>

Link 4: <https://www.bbc.co.uk/programmes/p033f8k0/episodes/guide>

Link 5: <https://www.sciencemuseum.org.uk/see-and-do/exploring-space>

Link 6: <https://www.railwaymuseum.org.uk/>

	Reading task		Creative task		Watching task		Student-led task
	Research task		Writing task		Listening task		Trip or visit