

# Low-Cost Experiments in STEM Education



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## Astrobiology: A Low-Cost Journey

Taking pupils from the classroom to the depths of space

During this **eight week after school club**, pupils engage with **space and the search for life** in the universe through **low-cost activities exploring a range of scientific disciplines**, developed in connection with the **UK Centre for Astrobiology** at Edinburgh University.



**Week 1:** Exoplanets; Timeline of the Earth (top left); Electromagnets (middle left).



**Week 2:** Balloon rockets (top right); Mars Rovers



**Week 3:** Pressure (middle right); UV Rays; Toilet Troubles



**Week 4:** Indicators of Life (bottom right)



**Week 5:** Acid or Alkali? (bottom left)



**Week 6:** Bone density; Mind Like Ours?

**Week 7 & 8:** Reebops and Inheritance

Using everyday household items to explore concepts that are out of this world, bringing together physics, chemistry, biology, social studies, health and wellbeing, art, and careers.