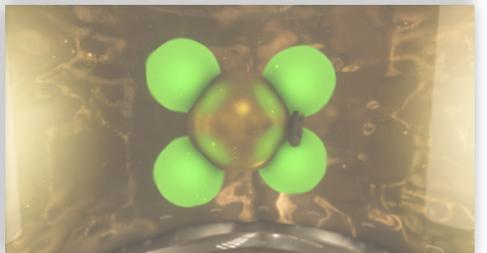
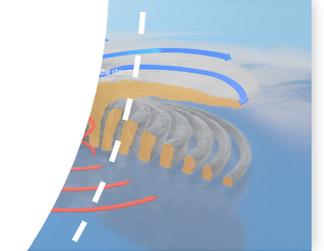


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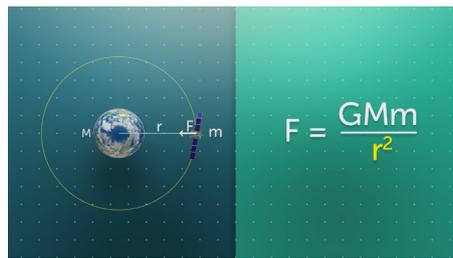
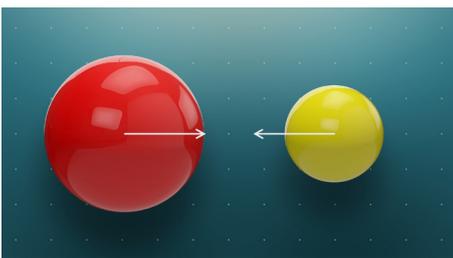
Catalogue Key

- min** Duration in minutes
- AR** Additional Resources:
Student activities and
support notes to assist
teachers
- CC** Closed captions



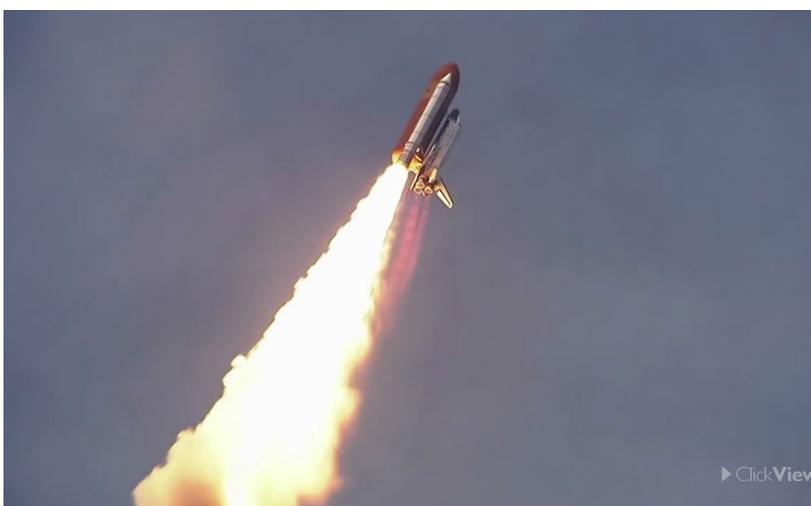
Physics

Stills from our new series



Gravity and Motion

Gravity is the most fundamental of universal forces. Understanding it involves a grasp of some complex mathematical relationships. This series looks at Newton's Law of Gravitation, orbits of satellites, and energy in orbital systems.



Energy of Orbital Systems

Orbital motion of satellites can be explained mathematically, but orbits—both of natural and artificial satellites—do not always remain constant. This clip examines escape velocity and energy of orbital systems, including gravitational potential energy in radial gravitational fields in a variety of situations. Senior level physics students will find it a valuable resource to enhance their understanding of energy in orbital systems.

GCSE: Physics

Additional Resources

- Comprehension Questions
- Transcript
- Blast Off!
- Suggested Responses

2017 | 8 min | CC | AR



Newton's Laws of Gravitation and Motion

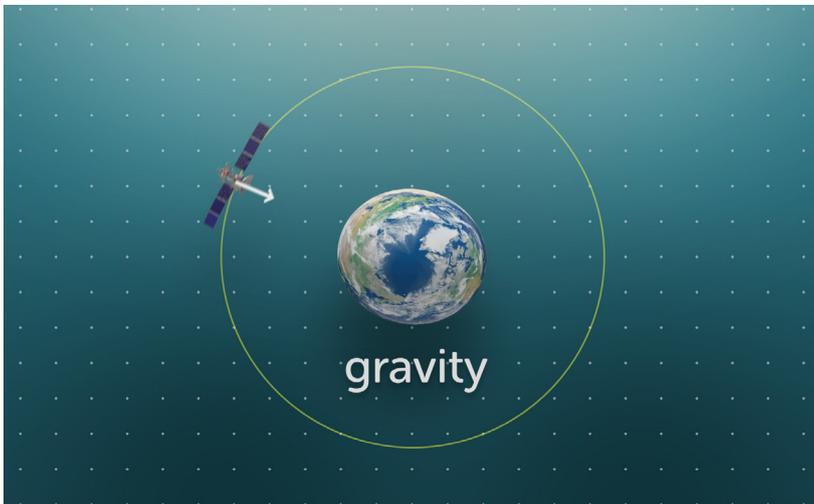
Three hundred years ago Sir Isaac Newton's work paved the way for our understanding of the force of gravity. This clip explains, both qualitatively and quantitatively, the law of gravitation, and how Newton's second and third laws of motion come into play when explaining the integral part that gravity plays in universal physical phenomena. It is an ideal resource for senior level students of physics.

GCSE: Physics

Additional Resources

- Comprehension Questions
- Suggested Responses
- What Holds the Universe Together?
- Transcript

2017 | 9 min | CC | AR



Orbits of Satellites

Constant unbalanced forces, known as centripetal forces, cause planets, moons and stars in the universe to orbit one another. This clip, aimed at senior level students of physics, examines fundamental aspects of orbital motion of satellites in our solar system and beyond, including physical quantities affecting orbital motion, Kepler's laws of planetary motion, and orbital properties and their uses.

GCSE: Physics

Additional Resources

- Comprehension Questions
- Transcript
- It All Stacks Up
- Suggested Responses

2017 | 13 min | CC | AR