

Newton's Laws of Motion and the principles of physics that make rockets possible [[NASA](#)]

Camera photo-imaging that documents the rocket's travel [[Crimson News](#)]

Electricity that powers the electronics used on board [[Rocket & Space Technology](#); [Princeton](#)]

Combustion laws that power a rocket's engine and propulsion [[CASIS](#); [CalTech](#)]

Orbital mechanics that let engineers calculate a rocket's trajectory, re-entry, and landing [[Rocket & Space Technology](#)]

Control systems that direct and steer the rocket [[NASA](#)]

Safety and launch simulation technologies that keep the rocket soaring and crew safe [[U-M News](#)]

Satellite communications that keep crew members in touch with Earth [[Research! America](#)]

HOW DID BASIC SCIENCE RESEARCH LEAD TO THE LAUNCH OF ROCKETS LIKE THE SPACEX FALCON HEAVY?

TO LEARN MORE ABOUT HOW BASIC SCIENCE RESEARCH PROPELS U.S. INNOVATION, VISIT: www.sciencecoalition.org

Image source: https://en.wikipedia.org/wiki/File:Falcon_Heavy_Demo_Mission_%2840126461851%29.jpg