

# SUMMER OF MARS

## Next Generation Science Standards

### Engineering Design

- 3-5-ETS1-1: Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.
- 3-5-ETS1-2: Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.
- 3-5-ETS1-3: Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

### Systems

- 4-ESS3-1: Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.
- 5-ESS2-1: Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.

## Program Resources

### 50 Years of Mars Exploration

[www.nasa.gov/mission\\_pages/mars/videos/index.html](http://www.nasa.gov/mission_pages/mars/videos/index.html)

### Journey to Mars Overview

[www.nasa.gov/content/journey-to-mars-overview](http://www.nasa.gov/content/journey-to-mars-overview)

### Mars: Explorers Wanted! Posters

<https://mars.nasa.gov/multimedia/resources/mars-posters-explorers-wanted/>

### Mars for Educators PowerPoint

[http://mars.nasa.gov/participate/marsforeducators/soi/resources/MarsSOI2012\\_Lesson4\\_pres1.ppt](http://mars.nasa.gov/participate/marsforeducators/soi/resources/MarsSOI2012_Lesson4_pres1.ppt)

### Mars Rovers

- Curiosity: <https://spaceplace.nasa.gov/mars-curiosity/en/>
- Sojourner: <https://spaceplace.nasa.gov/mars-sojourner/en/>
- Spirit and Opportunity: <https://spaceplace.nasa.gov/mars-spirit-opportunity/en/>
- Mars 2020: <https://spaceplace.nasa.gov/mars-2020/en/>



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