

explore SPACE

A Cosmic Journey



Earth vs. Mars

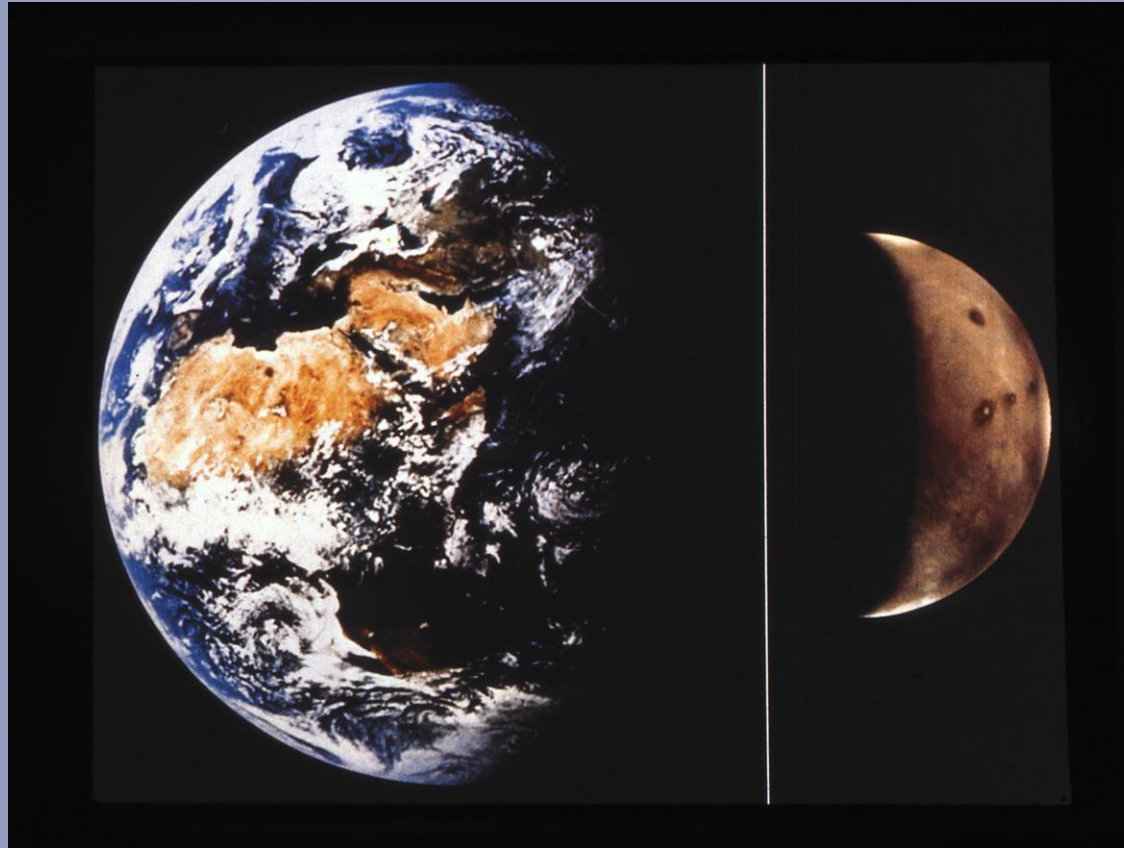


Dr. Katherine Auld
Bentonville Public Library
January 26, 2017



Earth

Mars



* Sizes to scale

* Earth 12750 km

Mars 6790 km



Earth



Mars

* Distance from the Sun

92.96 million miles

141.6 million miles

* Gravity

9.807 m/s²

3.711 m/s²

* Length of Day

23.96 h

1d 0h 40m

* Year

365.25 days

687 days

* Moons

Moon

Phobos and Deimos





Earth



Mars

* Pathfinder mission
Sojourner rover



* Mars Exploration Rovers
Spirit and Opportunity rovers



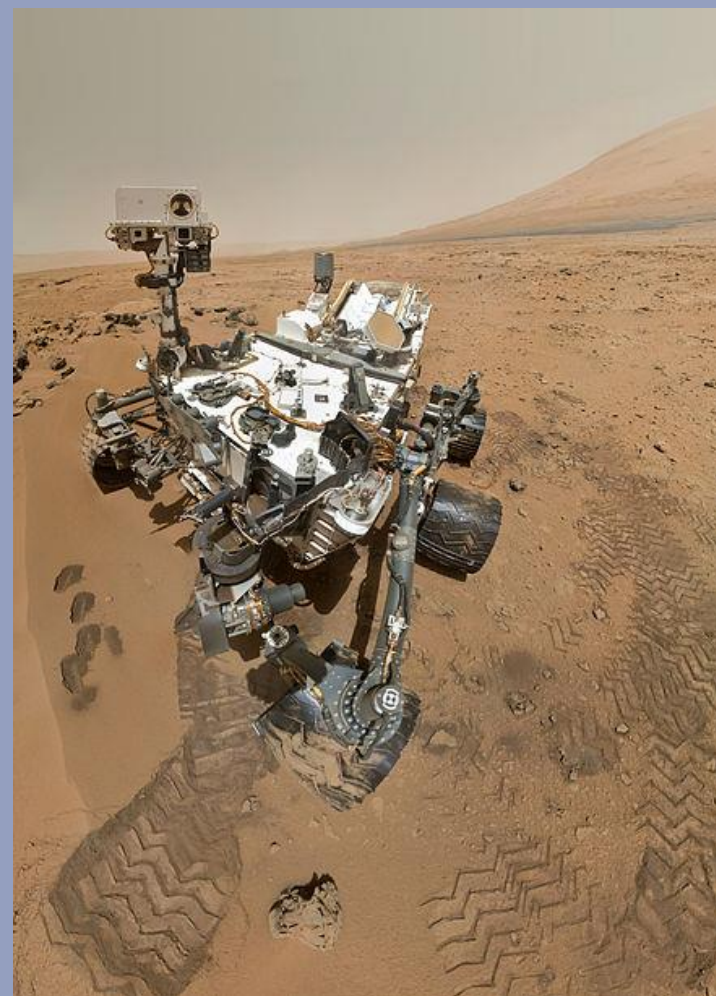


Earth



Mars

* Mars Science Laboratory
Curiosity rover





Earth



Mars

* Rovers



Sojourner

Spirit/Opportunity

Curiosity



Earth



Mars

* Rovers

Rover Name	Height	Weight
Mars Exploration Rovers	1.6 meters	174 kilograms
Mars Science Laboratory	3.0 meters	900 kilograms
Sojourner Rover	65 centimeters	11.5 kilograms
Phoenix Mars Lander	5.52 meters	410 kilograms



Go Program a Rover