

# Moonshot: The Flight of Apollo 11

## RIF EXTENSION ACTIVITIES FOR EDUCATORS

STEAM-THEMES: SCIENCE, TECHNOLOGY, ENGINEERING, ART, MATH

### SCIENCE, TECHNOLOGY, WRITING MISSING MOON ROCKS

There is a scientific mystery to be solved! Have your students become science super sleuths and come up with their own theories of what has happened to the missing moon rocks from the Apollo missions. Is your state on the list? Check out these resources to build student background knowledge: [www.space.com/22108-states-missing-apollo-moon-rocks.html](http://www.space.com/22108-states-missing-apollo-moon-rocks.html) and <http://video.foxnews.com/v/4237748/missing-moon-rocks/#sp=show-clips>.

Students should then come up with a plan to either locate the missing moon rocks from your state or ones missing from a state close to yours. This would also be a great prompt for a creative writing piece!



### SCIENCE, WRITING ASTRONAUT WHO'S WHO

Have students research an astronaut working at NASA. Biographical information on each astronaut can be found at [www.history.nasa.gov/kids.html](http://www.history.nasa.gov/kids.html). Students should prepare a short report or presentation about their astronaut and share with a small group or with the class. What does it take to become an astronaut?

### TECHNOLOGY, SCIENCE, MATH TO BOLDLY GO

Visit <https://www.nasa.gov/nextgiantleap> to find out what NASA has in store for future space exploration plans. Have students create a timeline with pictures to show what we can expect to see from NASA's space program. Which mission looks the most interesting? Can students come up with other mission ideas for NASA?

### ENGINEERING, ART, SCIENCE THE EAGLE HAS LANDED

Materials: cardboard box, paper towel tubes, aluminum foil, newsprint, markers, glue, scissors

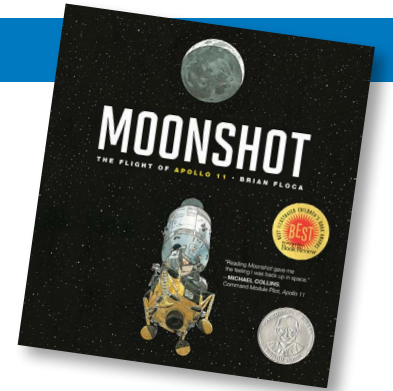
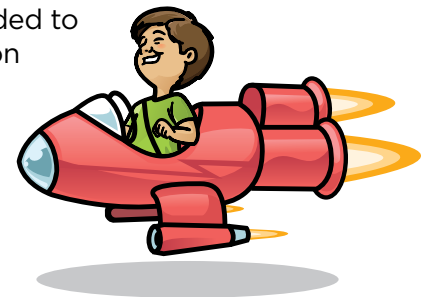
The Eagle has landed in your classroom! Have students work together to construct their own model Eagle spacecraft using the listed materials. What purpose did the reflective material on the actual spacecraft serve?

### ART RECYCLED ROCKETS

Let students use recyclable material to come up with their own unique rocket designs. After construction, students should write a brief description of their rocket and an itinerary of where the rocket is planning to travel. How large is its crew? What is their mission?

### MATH TIMELY SPACE TRAVEL

Scenario: Each student has been given a space vehicle that can travel up to 10 miles per minute. How long would it take to reach the moon? Have students choose another planet (or more, for older students) and calculate the amount of time needed to reach that destination from Earth.



Reading Is Fundamental