Mission to Mars

A Safe Landing

Prep Work
1. Print a copy of the “Safe Landing” resource for each student.
2. Provide students with the necessary materials for building their Mars lander, or create a materials table they can access.

Lesson Flow
1. Start the lesson by asking students what astronauts do. Then engage the class in a discussion about whether they think exploring space is important.
2. As a class, read the magazine On a Mission and discuss the topic of space. Direct students to the timeline, “Mission to Mars,” on the back page. Ask: What do you think a future mission to Mars might be like? (Answers may include: “More rovers may go to Mars.” or “Astronauts may go to Mars.”)
3. Explain that students are going to imagine that a group of astronauts is traveling to Mars and has to find a way to gently land a spacecraft and a rover on the surface. Students will build a craft that holds the astronauts and lands them safely.
4. Show students the materials they have to work with. Provide them with the resource “Safe Landing,” and allow them time to draw a design of their craft. Once their design is complete, allow them time to construct it using the materials provided. They should also test their design and modify it if necessary.
5. After students have constructed their crafts, have them compare and contrast their designs in groups of four.

Discussion
Would you feel safe being an astronaut in the lander you designed? Why or why not?
Safe Landing

Read “On a Mission” (February 2020). Then use the space below to draw and label your space craft.