# to: You

subject:

from:

## Hi engineers,

We're in a really cool place—Antarctica! We sent you a map so you can see where we are. We're visiting our friend Maru at a testing site for the National Aeronautics and Space Administration. NASA testing sites are places where engineers prepare for space missions in a safe but realistic environment before they leave Earth. NASA needs to test a lot of things, from big pieces of equipment to little scraps of materials.

archive

forward

engineeringadventures@mos.org

The Right Material for the Job

Maru is a materials engineer, so she works with metals, fabrics, plastics, and other materials to design spacesuits. Spacesuits have many parts that work together, including helmets, boots, and gloves.

Can you be materials engineers? We sent you some everyday gloves to explore. Can you help us *ask* lots of questions about these wearable technologies? What materials are they made of? What features make them good for some tasks but not for others?

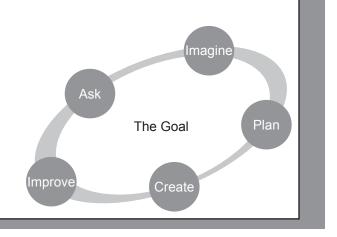
We can't wait to hear what you find out!

India and Jacob



2:11 PM

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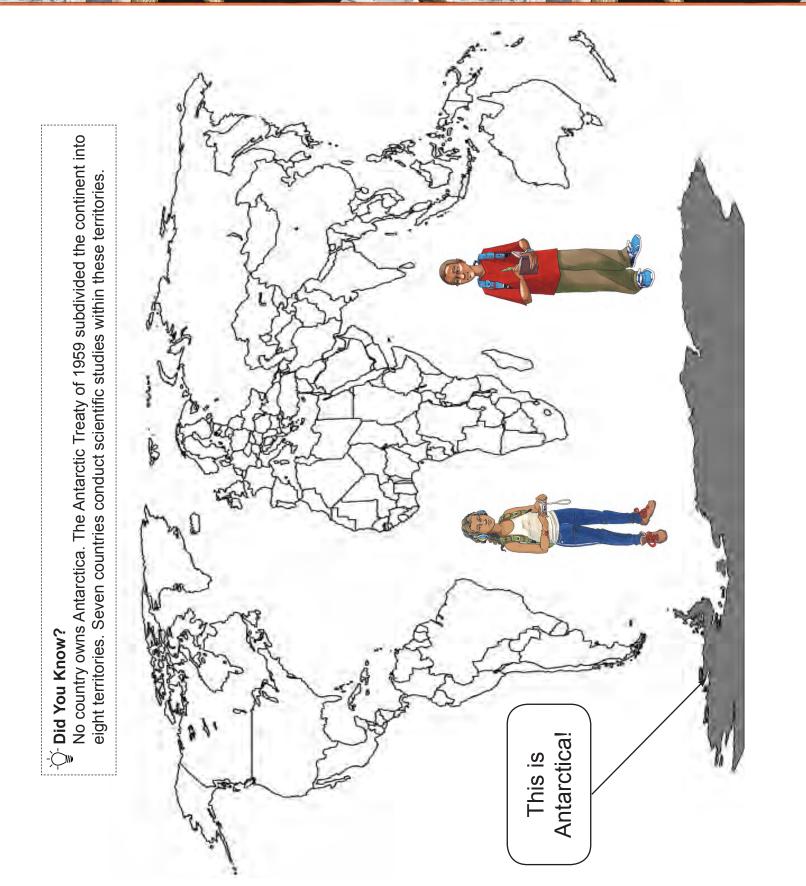


**Adventure 1** 

reply

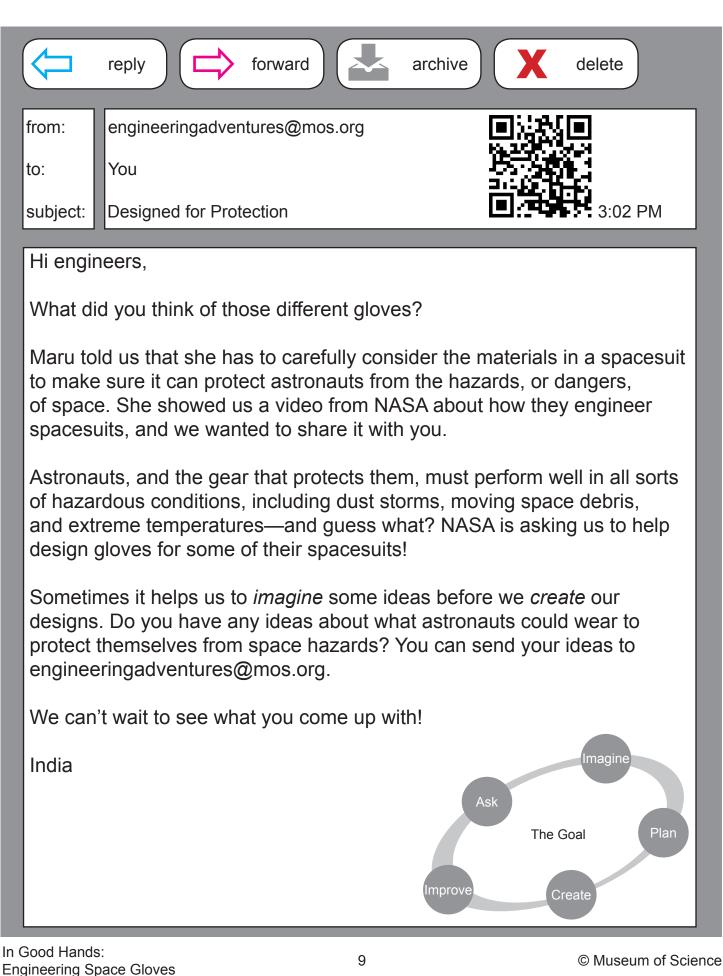
**Adventure 1** 

### World Map



#### **Adventure 1**

### Message from the Duo





- 1. *Imagine* you are an astronaut working in space. Choose one or two hazards that would make it difficult to survive.
- 2. What do you think you could wear to help protect yourself from these space hazards? Write or draw your ideas below.

Ö Did You Know?

New space gloves are constantly being designed because astronauts can hurt their fingernails very easily in the current gloves. The current gloves are not flexible and cause enough damage that the astronauts' fingernails fall off!