



Activity Seven

Friction on the Moon

**WHAT DO YOU THINK?**

The Lunar Rover proved that there is enough frictional force on the moon to operate a passenger-carrying wheeled vehicle.

- **How do frictional forces on Earth and the moon compare?**

Record your ideas about this question in your *Active Physics log*. Be prepared to discuss your responses with your small group and the class.

**FOR YOU TO DO**

1. Walk forward for a few steps and then come to a quick stop. Make the observations needed to write answers to the following questions in your log:
 - a) In what direction do you push your feet to make your body go forward?
 - b) Identify the force that makes your body go forward with each step.
 - c) In what direction do you push your feet to make your body stop?
 - d) Identify the force that makes your body stop.
 - e) Explain in terms of forces why it is difficult to walk forward or to come to a quick stop on a slippery surface such as ice.