



PHYSICS TO GO



- Based on what you have learned about friction on the moon, what problems do you see for walking and running on the moon? Why?
 - What problems do you see for quick starts and quick stops on the moon? Why?
- How many 10-pound bags of potatoes (that is, 10 pounds weight on Earth, or 4.5 kg of mass) would a 70-kg person need to carry on the moon to have the person's weight on the moon (body + potatoes) equal the person's weight on Earth (body only)?
- Would carrying extra weight—perhaps a material other than potatoes—be a possibility for achieving normal frictional force for walking or running on the moon?
- What problems might race cars or bikes encounter going around curves on the moon?
- How would sliding into second base be different on the moon than on Earth?
- Identify one sport which would in no way be affected by differences in frictional effects between Earth and the moon.
- If you were to give a shuffleboard disk a push on a shuffleboard court on the moon, would it slow down just as it does on Earth, or will it take a longer or shorter distance to slow down? Give evidence to support your answer.
- Will friction between your hand and a football or your hand and a bat be different on the moon? Why?

