



LESSON PLAN: **ROVERS ON MARS**

Lesson One Student Handout

1. How fast does the Rover send/receive data (baud rate or bytes per second)?
2. How fast can the Mars Orbiters send/receive data?
3. How fast can the Earth Deep Space Network send/receive data?
4. How many hours each day can the Rover communicate with Earth?
5. How many hours each day can the Rover communicate with Mars Orbiters?
6. How many hours each day can the Mars Orbiters communicate with Earth?
7. How fast in kilometers per hour is the speed of radio waves carrying data?
8. How far apart are Earth and Mars at their closest orbital points?
9. How far apart are Earth and Mars at their farthest orbital points?
10. How far apart are Earth and Mars right now?