



# Transportation System

Brainstorm and write your answers on a separate sheet of paper.

1. What different ways do we have of transporting people and goods here on Earth? What physical features of Earth do these methods require in order to function? What are the strong points of each of these systems? What limitations does each have?
2. What do you think would need to be transported on Mars in each of the following situations:
  - a. Within the Mars **colony**, and
  - b. Between the Mars colony and other points on Mars.
3. Research Mars facts. Do you think any of our earthly transportation methods (#1 above) would be impractical on Mars? Why or why not? Which earthly transportation methods do you think would be particularly useful? What features of them might you have to modify?

Identify and write down four “Mars Facts” that impact the design of a Transportation System.\*

- 1.
- 2.
- 3.
- 4.

4. Design a Transportation System\* to be used by the Mars colony inhabitants who will have components to satisfy the different situations they could encounter (#2). For this activity you may assume that some of the basic construction materials you need will be transported from Earth to the Mars colony. You may want to sketch a blueprint showing how your design will look and how it will work.



\* This system is to address transportation on Mars only, not transportation to and from Earth.