

Student Name _____ Date _____

MAPPING MARS

Directions: Using the information below, answer the following questions and draw a map of Mars.

Discussion

1. Explain the benefits of each type of representation (map and globe) of Earth.
2. When does it make more sense to use a globe? When is it better to use a map?
3. Read about different types of map projections at [Xpeditions' Globe Projector](#) (click on Standard 1 on the navigation across the top of the page) Which projection is best to use for navigation? Why?
4. What is the advantage of using a polar projection?
5. When would it be better to use one of these maps rather than a globe? When would it be better to use a globe?
6. Look at [maps of Mars at the MapMachine](#). What do you think would be the differences between mapping Earth and mapping Mars?

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10. Draw two or three pictures of Mars. Each picture should represent Mars in a different way. One picture should show Mars as a globe, and the other one or two should show Mars in different flat map forms (e.g. a standard Mercator-type projection and a close-up of a specific area).