

Question Mars Student Worksheet I

Name(s) _____

Date _____

Establishing a Research Topic

1. Within your group, brainstorm 4 general topics that can be studied about Mars:

_____	_____
_____	_____

2. After the class discussion, list the 6 major categories of topics the class will study about Mars:

_____	_____
_____	_____
_____	_____

3. List the topic your group will research: _____

Brainstorming Questions

List five questions you are curious about based on your topic and how it may relate to Mars:

Question 1: _____

Question 2: _____

Question 3: _____

Question 4: _____

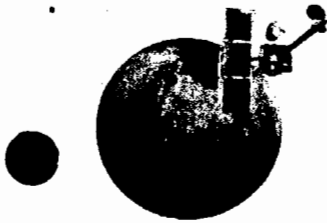
Question 5: _____



Question Mars Student Worksheet II

Making Observations of THEMIS Images

Name of Feature(s) Observed	Sketch of Feature(s) Observed	Description of Feature(s) Observed



Question Mars Student Worksheet III

(Elementary Grade Level)

Name(s) _____

Date: _____

Question Development – Refining Questions

After making your observations of THEMIS images, you now may be curious and have questions about the features you have seen! Anything you are curious about can be formed into a valid question. For any science experiment, a question that is asked should be able to be answered using the tools you have available. Your tools are the THEMIS images.

As you begin, list the name of a specific surface feature you are curious about. Look back at your sketches and observations and create a new question that asks about the **shape(s), or size(s) or where this feature may form**. You may have other ideas of questions you can ask, but make sure you can answer them by looking at images of Mars.

Here are 2 examples:

Example 1

Name of Surface Feature: Lava tubes

Sample Question: How wide are different lava tubes on Mars?

Example 2

Name of Surface Feature: Dunes

Sample Question: Are dunes always found in the bottoms of craters?

Create your new questions below:

Name of Surface Feature: _____

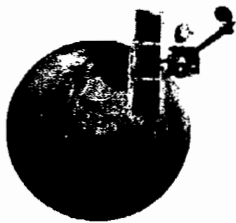
Question 1: _____

Name of Surface Feature: _____

Question 2: _____

Name of Surface Feature: _____

Question 3: _____



Question Mars Student Worksheet III

(Secondary Grade Level)

Name(s) _____

Date _____

Question Development – Refining Questions

1. After making your observations of the different surface features, you should now have a better idea of what types of questions can be answered using a THEMIS image. Keep in mind that ALL questions are good questions! Anything you are curious about is a valid question! For any science experiment, however, your question should be answerable by using the tools you have available.

Look back at your original 5 questions from the Question Mars Student Worksheet I. For each of your questions, evaluate if images from the THEMIS camera are the correct tool to help you answer your original questions.

Question 1:	Yes	No	Not Sure
Question 2:	Yes	No	Not Sure
Question 3:	Yes	No	Not Sure
Question 4:	Yes	No	Not Sure
Question 5:	Yes	No	Not Sure

2. Now that you have a better idea as to what you can see in THEMIS images, create 3 new questions that focus on specific features you can see or observe. Two important points to think about when creating your refined questions are:

a. Focus on Identified Surface Features: Look at your THEMIS Observation sheet. Choose a feature you were able to identify in one or more THEMIS images as the focus of your question.

b. Key Question Words: Here are some suggested key words/phrases you may consider using:

- Is there a relationship between _____ and _____?
- What is the size range of _____?
- Where do _____ occur on or around _____?

Question 1: _____

Question 2: _____

Question 3: _____