

Mapping Mars – Activity Worksheet

Name: _____
Date: _____
Grade: _____
Teacher: _____
School: _____

A. Mars vs. Earth Overview

List 3 observations and make inferences for the surfaces of Earth and Mars

	Observation	Inference
Earth		
Mars		

Using your observations and inferences, list 3 similarities and 3 differences between Earth and Mars.

B. Notes/sketches for Martian Features:

Rocks	
Volcanism	
Tectonism	
Impact Craters	
Wind Features	
Polar Ice Caps	
Valley Networks	
Outflow Channels	
Tear Drop Islands	
Landslides	
Gullies	
Exposed Layers	

C. Water Flow

Indicators of water flow on Mars include _____

These variables determine the likelihood of water flow

D. Finding the evidence

Using the global elevation map of Mars, locate three area where you think there is good evidence of water flow & record the latitude and longitude:

Landing Site #1:

Latitude:

Longitude:

Landing Site #2:

Latitude:

Longitude:

Landing Site #3:

Latitude:

Longitude:



Select **one** of your sites and investigate further using Google Mars, record all the search criteria below:

Name of feature (if there is one): _____

What type of setting is this feature characteristic of? Explain.

Length of feature = _____ (include units)

E. Investigating closer

Select one CTX, and HiRISE image.

Recall: CTX = Mars Reconnaissance Orbiter Context Camera

HiRISE = Mars Reconnaissance Orbiter High Resolution Camera

CTX Image Product Number: _____

Date of Image: _____

Location Name: _____

Geographic Location: _____

HiRISE Image Product Number: _____

Date of Image: _____

Location Name: _____

Geographic Location: _____

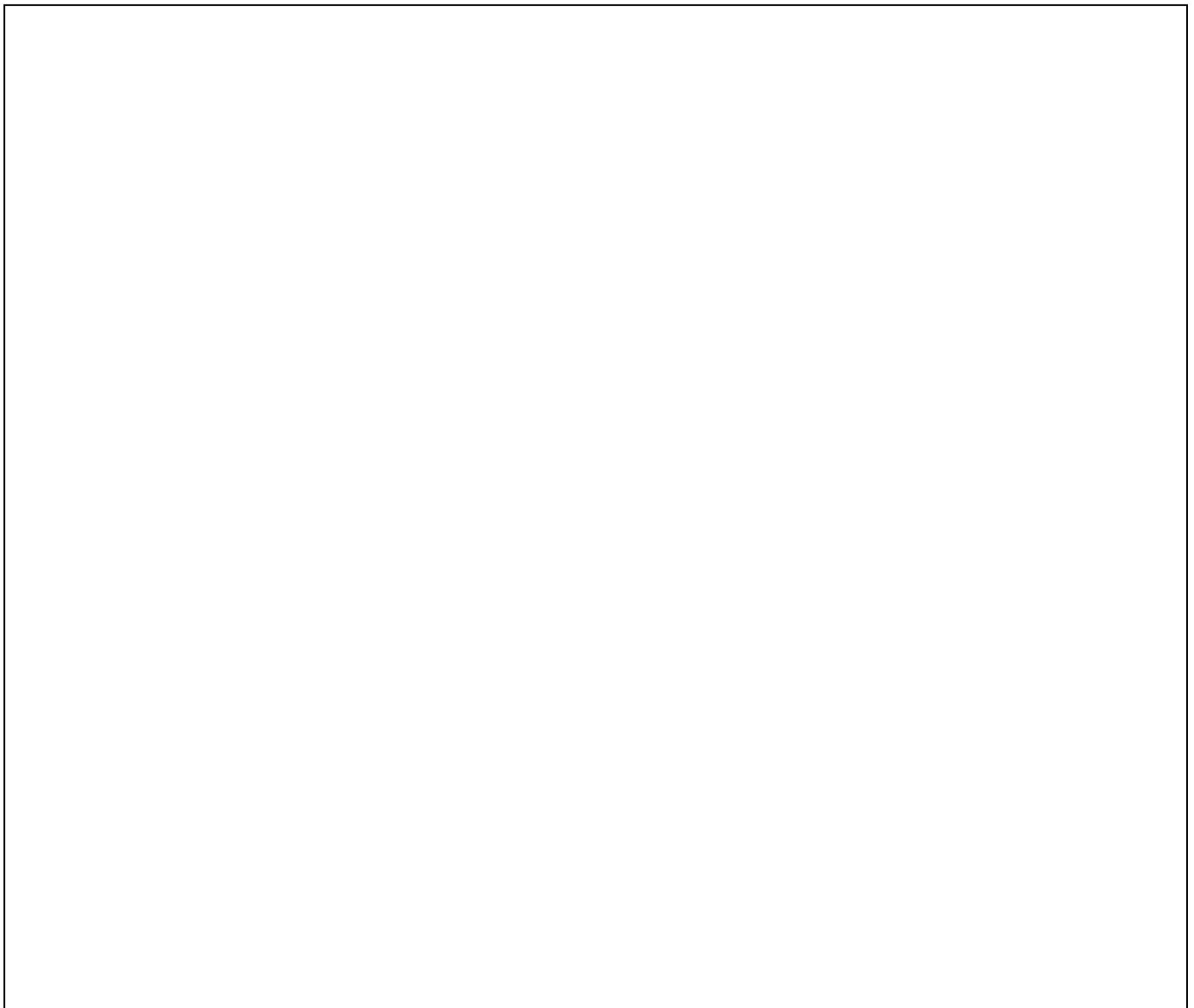


Print or save the images.

On the printed images, record the product number, provide a scale bar, indicate north on the image. Provide context images.

F. Hand-drawn map (optional)

Draw a map of your landing site. Include a legend, scale bar, and indicate which direction is north.



G. Missions to Mars (optional)

State the name of mission chosen: _____

Provide a brief background about this mission (who launched it, time and duration of mission, purpose of mission, where did it land). Also list the references.



H. Terminology (optional)

1. Analogue: _____

2. Basalts: _____

3. Tectonic Rift: _____

4. Valles Marineris: _____

5. Outflow channels: _____

6. Olympus Mons: _____

7. Gullies: _____

