

Exotrex2 Lesson 2.2a: Mercury Mission

Name: _____ Date: _____

Mission Notes: Record your notes on this handout as you complete the Mercury Mission. Use this as a reference for your end-of-mission report to Dr. Burke.

Task #1 - Probe Lander: Send your instruments to Mercury's surface in order to study its composition.

1) What are the three forces measured by your probe's computer systems?



2) Which force (a, b or c from above) is the most important to control as you land? _____

Why? _____

3) What is the amount of gravitational force on Mercury? _____

4) How did you steer when landing the probe? _____

5) Which force above (a, b or c) changed the most when you steered? _____


Why do you think it changed so much? _____



Task #2 - Mercury Rover: Collect surface samples on Mercury to analyze the planet.

6) As you play Mercury Rover, what causes the most damage to your rover? _____

7) Why do you think that causes so much damage? _____

Mercury Rover Observations: Complete the following observations for your records. If you missed them, you can access them through the dashboard [] and then click on observations.



Mercury has many _____ from _____ that
couldn't be _____ down by the planet's _____ atmosphere.

Mercury Rover Observations (Continued):



Mercury's _____ means _____ are deathly _____ and _____ are extremely _____.



Even though Mercury is the _____ planet to the _____, _____ is found _____ in dark _____ that never see the _____.

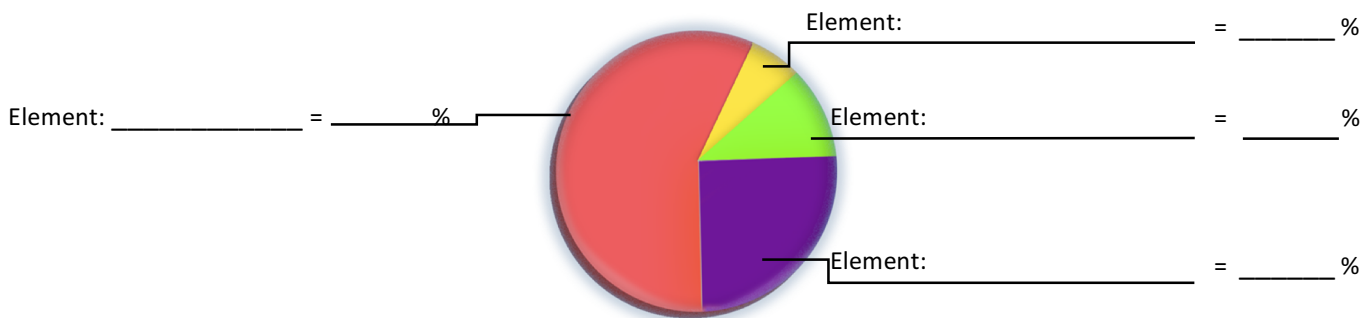


Mercury _____ the Sun _____ times by the time _____ completes one _____.



Mercury is the _____ planet with a weak _____ which is why there is such a _____.

Task #3 - Particle Analysis: Determine what you collected on Mercury's surface.



8) Explain how you would use at least one of the elements on Mercury if you decided to settle there:



Task #4 - Conclusions: You will need to share with Dr. Burke what you have learned but be prepared to answer this very important question:

9) Would you recommend Mercury for the future home of humanity? Explain your answer
