**MARS’ IMPACT CRATERS**

1. Open Google Earth and find the Mars-Earth Comparison folder.
2. If you are not already there, switch to Google Mars.
3. Maximize the “Craters” subfolder and double click on “MARS”
4. Dive in to explore Mars’ surface for impact craters.

* **How many impact craters did you find? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Maximize the “MARS” subfolder and double click on “Schiaparelli Crater”

* **Sketch the crater in the box below**
* **the diameter of the crater is \_\_\_\_\_\_\_\_\_\_\_\_\_ km**
* **Notice the smaller craters in and around the large one. Can you tell which crater was created first? How?**

1. Double click on “Victoria Crater.” This crater was explored by NASA's *MER Opportunity Rover*. Click on one of the camera icons and fly into the photograph to get a view of this crater as if you were standing on the surface of Mars.

* **What was the most surprising thing you saw in this photo?**

1. Double click on “Craters on Mars”

* **What does the heavily cratered surface of Mars tell you about the age of its surface?**

**EARTH’S IMPACT CRATERS**

1. Switch to Google Earth and double-click on the “EARTH” subfolder.
2. Dive in to explore Earth’s surface for impact craters.

* **How many impact craters did you find? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Maximize the “EARTH” subfolder and explore the craters numbered 1-8. Complete the following information for each crater: To find the age, click on the actual number of the crater. A text box will appear.

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| **NAME OF CRATER** | **AGE OF CRATER** |
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* **What happens to craters on Earth as they get older?**

1. Double Click on “Can you find any more craters?”

* **Why, then, is Mars' surface covered in craters while Earth's appears so clear of them?**
* **What are some of the processes and mechanisms that break down crater landforms on Earth?**
* **Based on what you see on Mars' surface, do you think those processes are happening on Mars as well?**