

THE BARRINGER METEORITE CRATER

www.barringercrater.com

Student Handout 1: From Above or Below? Volcanic vs. Impact Craters

Student Name:

Date:

Craters are formed both by impacts and volcanism. What do you see when you look at the below images? What shape is it, what materials are around it, is the crater above or below the surrounding terrain, other details? What kind of crater is image 1 and image 2?

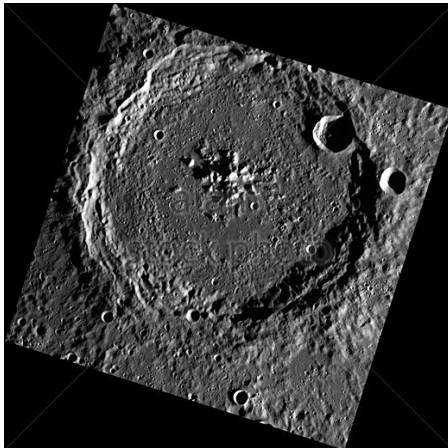
Image 1



Describe Characteristics

Describe Characteristics

Image 2



www.alamy.com - D3D8PW

Crater Characteristics

Volcanic Craters:

- Shape: _____
- Materials Around the Crater: _____
- Crater Floor Lower or Higher than Surrounding Terrain: _____
- Other Characteristics: _____

Impact Craters:

- Shape: _____
- Materials Around the Crater: _____
- Crater Floor Lower or Higher than Surrounding Terrain: _____
- Other Characteristics: _____

Using Google Mars: Click on the link below to examine images of craters on Mars

Mars Crater 1: <http://www.google.com/mars/#lat=11.075993&lon=-104.425048&zoom=7&map=visible>

List the characteristics you see:

Other observations:

Origin of crater?

Mars Crater 2: <http://www.google.com/mars/#lat=-52.542955&lon=->

[159.060058&zoom=7&map=visible](#)

List the characteristics you see:

Other observations:

Origin of crater?

Explore the surface of Mars: <http://www.google.com/mars>

Do you see more volcanic or impact craters?

How can you tell which is which?

Using Google Moon: Click on the link below to examine images of craters on the Moon

Moon Crater 1

<http://www.google.com/moon/#lat=15.156973&lon=46.054687&zoom=6&apollo=false&map=visible>

List the characteristics you see:

Other observations:

Origin of crater?

Moon Crater 2

<http://www.google.com/moon/#lat=-43.961190&lon=-11.206054&zoom=6&apollo=False&map=visible>

List the characteristics you see:

Other observations:

Origin of crater?

Now explore the surface of the moon on Google Moon:

<http://www.google.com/moon/>

1. What kind of craters do you see?
2. In what ways do Mars and the Moon look similar?

Further Thinking Questions

1. Was it difficult to identify the origin of the craters? Explain: Why or why not?
2. Why are there so many craters on Mars and the Moon?
3. Do we have as many craters on Earth? Why or Why not?

List 3 follow-up questions you now have about craters and how they are formed:

- 1.
- 2.
- 3.