

This is The Process of Crater Formation Report Sheet

As you observe Tactile Card images 9a through 9i, describe what you learn about the transfer of energy by following the direction in which the arrows point. Record your responses in this report sheet.

Based on the Contact and Compression Phase Tactile Card Tactile Cards 9b-d, describe how energy is transferred in this first stage of cratering by describing the number and direction of the arrows.

**Answer these questions based on Tactile Card
Tactile Card 9e Pre-evacuation Phase**

How is the void different in this image compared with the previous image?

What are some of the differences you can observe between this image and the previous images?

How has the transfer of energy changed?

**Answer these questions based on Tactile Cards
9f-9h Evacuation Phase**

**As you observe each of these images, what
changes are you observing in the size of the
crater?**

Where is happening to the soil from this crater ?

**How is the energy of the ejecta changing in
magnitude?**

**How would you describe the series of events in
these sketches?**

What do you predict will happen next?

Answer these questions based on Tactile Cards 9i-9j Modification Phase

You can observe the crater depression by tracking the heavy solid line underneath the loose particles. Track the solid line up and out to observe the crater walls. Note that there is a buildup of ejecta material on the edges of the crater.

How does this compare with your prediction?

Tactile Card 9j is a view of the crater as seen from above just like the craters from our tour of the Solar System. The ejecta pattern is the solid textured region and the loose particulate matter is again represented by short curved lines.

How the amount of gravity would affect what happens to the ejecta curtain?

**Thinking about Your Learning:
Explain the causes and effects of impact
cratering.**

**Describe craters and ejecta patterns that occur on
several bodies in our Solar System.**

**Describe how energy is transferred during the
process of crater formation.**

**What are some of the factors that would cause
different shaped craters to form?**

**What variables would you like to test when you
Design a Crater?**