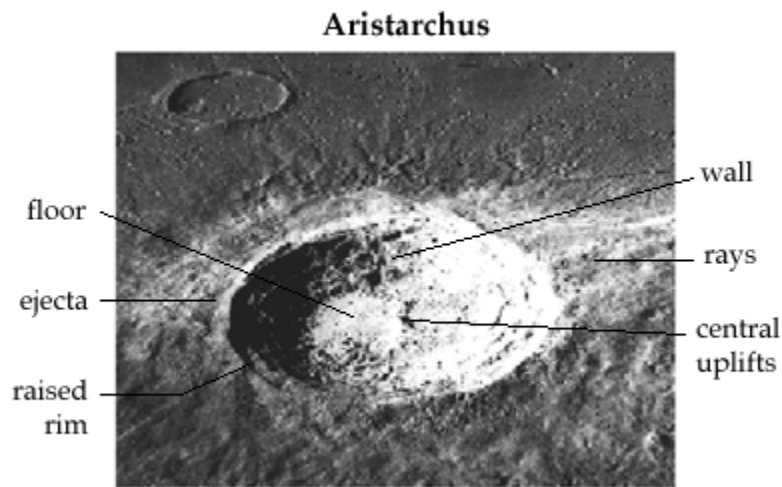


Name/LP \_\_\_\_\_ Date \_\_\_\_\_

## Impact Craters Activity



### Materials per group of 4 students:

- 2 meter sticks
- Magnetic marbles
- Magnet
- Small ruler
- Rectangular Plastic Tupperware container with lid
- Mixture of flour (75%) & laundry detergent (25%) topped with milk chocolate powder

### Procedure:

1. Using your meter stick, measure 30 cm above the “moon surface”.
2. Place the marble next to the 30 cm mark then let the marble fall straight down. Be careful, move the ruler out of the way so that the marble does not hit it.
3. Using the magnet, remove the marble without disturbing the crater.
4. Measure the diameter, depth, and the lengths of 3 rays in cm.
5. Repeat 2 more times for 30 cm.
6. Add up the total and determine the average.
7. Repeat steps 1-6, this time using 60 cm.
8. Repeat steps 1-6, using 90 cm.
9. Repeat steps 1-6, using cm of your choice.
10. Graph and answer questions at end.



Drop height 30 cm	Trial 1	Trial 2	Trial 3	Total	Average
Crater diameter					
Crater depth					
Lengths of 3 rays					

Drop height 60 cm	Trial 1	Trial 2	Trial 3	Total	Average
Crater diameter					
Crater depth					
Lengths of 3 rays					

Drop height 90 cm	Trial 1	Trial 2	Trial 3	Total	Average
Crater diameter					
Crater depth					
Lengths of 3 rays					

Drop height _____ cm	Trial 1	Trial 2	Trial 3	Total	Average
Crater diameter					
Crater depth					
Lengths of 3 rays					

