

## MAKING MOON CRATERS!

LIKE THE CLANGERS PLANET, THE SURFACE OF THE MOON HAS MILLIONS OF CRATERS. SOME ARE JUST A FEW METRES LONG AND SOME HUNDREDS OF KILOMETRES! THIS ACTIVITY DEMONSTRATES HOW CRATERS CAN FORM.

1



**GATHER ALL YOUR MATERIALS**

**YOU WILL NEED:**

- DIFFERENT SIZED MARBLES OR BALLS
- DRINKING CHOCOLATE POWDER
- A MEDIUM SIZED TRAY
- FLOUR

2



**FILL THE PAN ABOUT 2 CM DEEP WITH FLOUR AND LIGHTLY FLATTEN THE SURFACE. NOW SPRINKLE SOME CHOCOLATE POWDER OVER THE FLOUR SO IT COVERS THE ENTIRE SURFACE.**

3



**DROP A MARBLE INTO THE TRAY, OBSERVING THE SIZE AND SHAPE OF THE CRATER YOU'VE CREATED!**







**TRY DROPPING DIFFERENT SIZED MARBLES AND BALLS INTO THE TRAY AND COMPARE THE DIFFERENCE IN SIZE AND DEPTH OF THE CRATERS.**

**SEE IF YOU CAN PREDICT THE SIZE OF THE CRATER IF YOU DROP THE SAME MARBLE FROM DIFFERENT HEIGHTS.**

**IF YOU DROP THE SAME MARBLE FROM DIFFERENT HEIGHTS, THE ONE THAT HAS FURTHEST TO FALL WILL BE LARGER. IT HAS MORE ENERGY, MAKING THE CRATER BIGGER!**



Thanks to Emma from Science Sparks, a website full of fun, creative and inspiring science activity ideas for kids. [www.science-sparks.com](http://www.science-sparks.com)