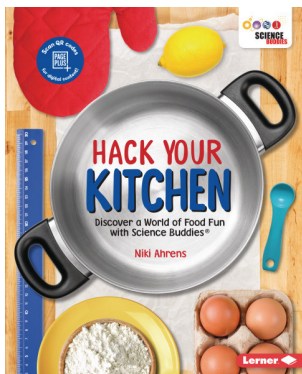


# FREE ACTIVITY



## FLOUR CRATERS

Use flour and cocoa to make craters.



Excerpted from *Hack Your Kitchen*

by Niki Ahrens

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# FLOUR CRATERS

Use flour and cocoa to make craters.

## MATERIALS

- ~ baking dish
- ~ flour
- ~ sieve
- ~ cocoa powder
- ~ several small to medium-sized balls



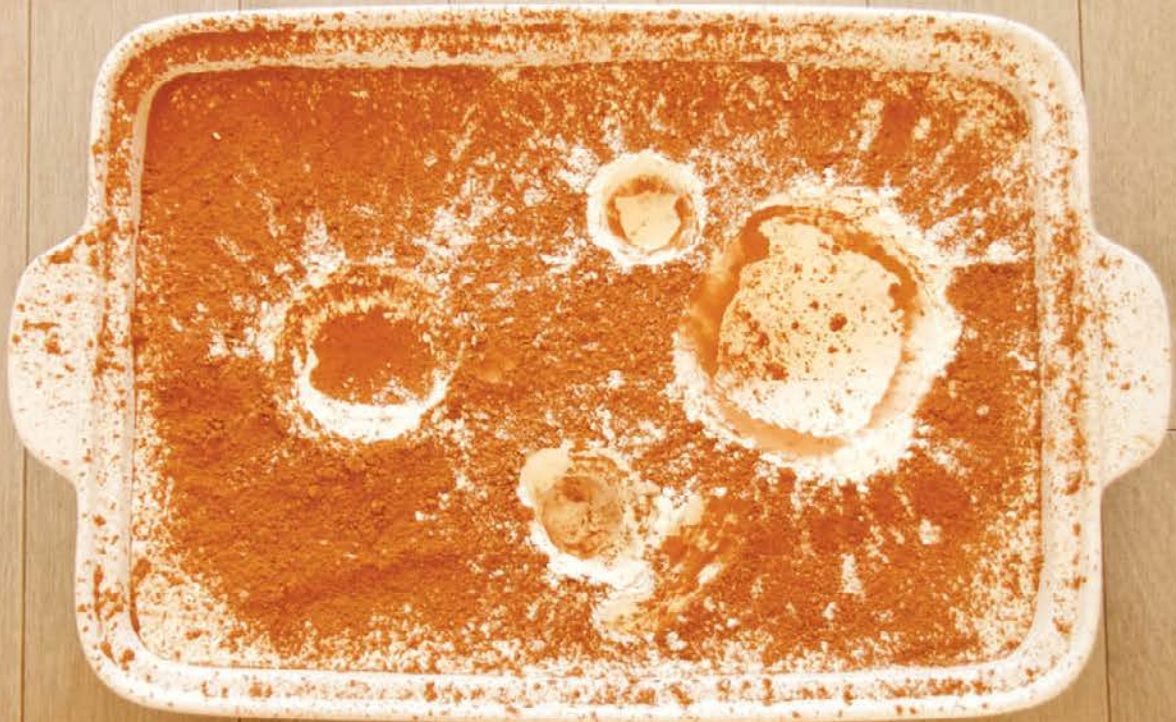
## INSTRUCTIONS

1. Fill the baking dish with flour.
2. Use the sieve to sift a thin layer of cocoa powder onto the flour.
3. Try dropping a ball into the pan from about 1 foot (0.3 m) above it.
4. Look at the impact crater. How does it look different from the rest of the pan? Measure the depth of the crater.





5. Try dropping the same ball from a different height, and measure the depth of the new crater. How does it compare to your first crater?
6. Try dropping balls of different sizes from the same height, or from different angles. How do these craters differ from one another?



## SCIENCE TAKEAWAY

Impact craters are made when meteorites crash into a planet or moon. The size, shape, and color of the crater depends on how big the meteorite was and how fast it was going when it hit the ground. The faster or bigger the meteorite is, the deeper and larger the impact crater will be.