



## ME AND MY SHADOW

Try the 'Light and Shadow' game in [www.wonderville.ca](http://www.wonderville.ca) before you do this activity at home.

*You have learned that a shadow is really just the absence of light. Just like cold is the absence of heat. Both light and heat are forms of energy so when they are in short supply we can observe that with our senses.*

### For this challenge you will need:

- A marble
- A driveway or tarmac area
- A sunny day

### The Challenge

To ring the marble with your shadow!

### What to do

- At mid-day (between 11:00am and 1:00pm) place your marble on the driveway or tarmac. Move 1-2 metres away from it and find your shadow. With your hand, make a doughnut so that your shadow forms a ring.
- Using your shadow and without squatting, try to get the marble inside your shadow ring.
- Try it at different times of the day.

### How did you do it?

- What 3 factors did you have to get lined up?

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- Draw a picture.

