

# #LifeGoesONline

Bringing Life Science Centre to you!

# Life™

SCIENCE FOR ALL

## Make a Solar System Treasure Hunt

Hunt around your home for circles and round things of the right sizes to represent each planet.

### We used:

- Measuring tape.
- Chalk.
- Lots of circles and round things.

### Our planets measured (in diameter):

Choose from your items the nearest match for each planet.

- Mercury: 0.7cm.
- Venus: 1.7cm.
- Earth: 1.8cm.
- Mars: 1.0cm.
- Jupiter: 20.5cm.
- Saturn: 16.7cm.
- Uranus: 6.7cm.
- Neptune: 6.5cm.

### Once our Sun was chalked onto the ground we measured the distances:

- Mercury: 2.4cm away from the sun.
- Venus: 4.8cm.
- Earth: 6.8cm.
- Mars: 9.6cm.
- Jupiter: 34.6cm.
- Saturn: 66.6cm.
- Uranus: 127.8cm.
- Neptune: 200cm.

Because the distances between the planets are so enormous, we had to use a different scaling system for the distances and sizes of the planets, or the planets would either be too small, or the distances between the planets would be too great.

### Fun facts:

The Sun is so large that all the planets in our Solar System would easily fit inside it with plenty of room to rattle around!

To make it possible to see our planets we had to make them 5000 times bigger than they should be at this scale. Space is huge!

At the scale we have used, Alpha Centauri, one of our nearest stars, would be 1280km away!

We are stuck at home, but [#LifeGoesONline!](#) Check out other activities to try at home on our social media channels [@scienceatlife](#) and send us a message if there's anything you want to see us cover!