



# British Science Week

## Home Learning Challenge

### NASA NEEDS YOU!

In January 2016, astronauts Tim Peak and Tim Kopra completed a spacewalk. If you would like to see it, have a look at [www.bbc.co.uk/newsround/35329363](http://www.bbc.co.uk/newsround/35329363). They had to finish early because Tim Kopra found a small amount of water in his helmet. This could have put him in danger.

Your challenge is to test 5 fabrics/other materials from around your home to see which would be most suitable to make a space suit. You could raid your recycling bins for materials or you may have other ideas.

The material used in space suits needs to be:

- Strong - so it doesn't tear
- Stretchy - so the astronauts can move easily
- Durable - so it doesn't wear out too quickly
- Airtight - to keep the oxygen in
- Waterproof - to hold the cooling system

How could you test fabric and materials to discover if they have these qualities? You need to record your investigation and your results.

Please return your findings back to Mission Control by Tuesday 31<sup>st</sup> March.

