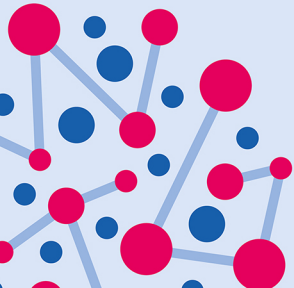




# Forces of friction

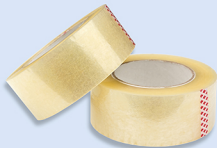
At-home science activity

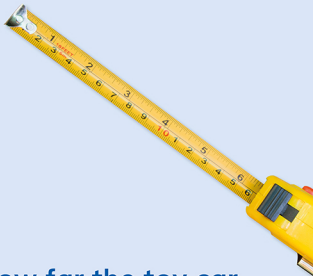
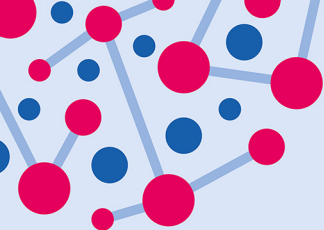


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# You will need:

- Flat surface
- Various materials (like wood, felt, aluminium foil, bubble wrap, and sandpaper)
- Toy car or similar
- Ruler or tape measure
- Sticky tape



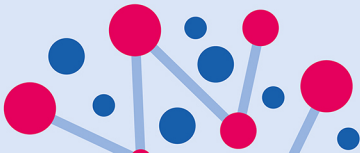


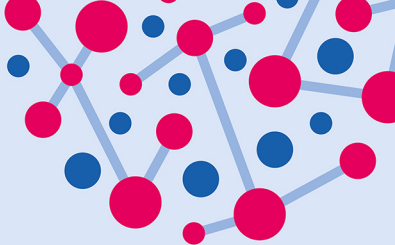
1. You're going to test how far the toy car travels on different materials.
2. Cover the surface with the first test material and use sticky tape to make sure it doesn't move.
3. Slide the toy car across the test material and measure and record the distance the toy car travels.

4. Repeat step 3 around 10 times and calculate the average distance travel by the toy car across that material. To do this, add all the distances together and divide by the total number of distances.

5. Carry out the investigation with the other test materials and record the distances traveled by the toy car.

6. What did you find out? On which surface did the car travel the furthest? Find out why on the next page...





The force of friction is much smaller on smooth surfaces than on rough surfaces. This means that the toy car will travel further across the wooden surface than it will across the sandpaper.

