



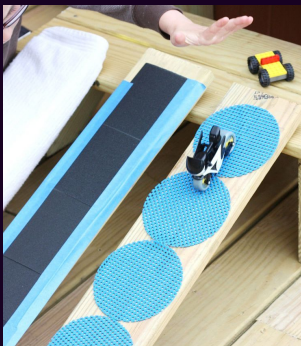
# Derwent Forces



## Car Races

Create some ramps using card, lengths of wood or books. Make sure they are all the same height. Cover each ramp in a different material (e.g. tinfoil, clingfilm, cotton wool, bubble wrap, paper, whatever you want to investigate).

Using toy cars, set them off at the same time. Which was the fastest? Which was slowest?



## Marshmallow Shooter

Tie a knot in the end of a balloon and then cut off the top.  
Cut the bottom off a paper cup.  
Tape the knotted end of the balloon over the cup, making sure it is tight.

Put in your marshmallow, pull the end of the balloon and launch those marshmallows!

## Egg Parachute

Experiment with different materials to find which makes the best parachute for your egg. Don't want to risk the egg? Use a toy character or a piece of clay / blue-tac.



## Paper Aeroplanes

Use the instructions on the web-page or your own tried and tested method. Decorate the planes then see whose goes the furthest. Increase the skill level by creating a target!

## Balloon Rockets

Thread a straw on to a length of string. Tie the string across as bigger distance as you can (e.g. door handle to window handle) making sure it is tight.

Blow up a balloon and attach to the straw using tape and use a clothes peg or hold the end.

Let go to launch the rocket! Set up two sets and race your rockets. You could even draw your own rocket to stick onto the balloon.

