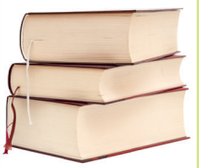
Investigate: Slopes

You will need:


kitchen roll


scissors


thick books


Blu-Tack


toy car


stopwatch

Steps:

1. Cut the kitchen roll in half (lengthways) to make a ramp.
2. Prop the ramp up on one book.
3. Use Blu-Tack to hold it in place.
4. Place the toy car at the top and let it go.
5. Use the stopwatch to time how long it takes to reach the bottom.

How can you make sure that it is a fair test?

Results:

Number of books	Prediction: slower/faster	Result: time
1		
2		
3		
4		
5		

Slowest: _____

Fastest: _____

What force is making the car roll down the slope?

Investigate: Friction

You will need:

toy car

ramp

stopwatch

materials
e.g. cloth, sandpaper, bubble wrap, clingfilm

Steps:

1. Cover the ramp in the material you want to test.
2. Place the toy car at the top and let it go.
3. Use the stopwatch to time how long it takes to reach the bottom.

Results:

Material	Prediction: slower/faster	Result: time
cloth		

Slowest material: _____

Fastest material: _____

What would be the best material for making a race track?