



The Simpson investigations

Independent

Investigation 1

Independent variable:



Dependent variable:

Fair test:

Investigation 2

Independent variable:



Dependent variable:

Fair test:

Dependent

Fair test

Investigation 3

Independent variable:



Dependent variable:

Fair test:

Investigation 4

Independent variable:



Dependent variable:

Fair test:

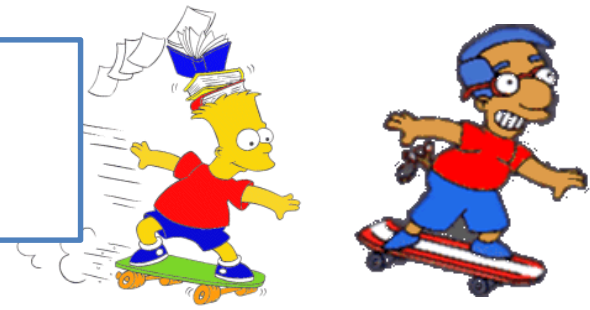
Success criteria

Investigation 1 - Which shoes Homer?



- Homer has just been picked for a bowling team
- He has rubber shoes, leather shoes and the plastic shoes.
- He tests each shoe by running 2 metres and then measures how far he slips down the ally.
- He wants to find the shoes which will give him the least amount of slip.

Investigation 2 - Bart at the skateboard park



- On the way home from school Bart and Millhouse stop off at the skate park.
- The two of them decide to have a downhill race on their skate boards over a distance of 10 metres.
- For a challenge, Bart thinks it would be a good idea for both of them to put different numbers of school books on their head's.
- They get Lisa to time them and calculate their speed.

Investigation 3 - Lisa skipping science project



- Lisa decides to test how the length of rope will affect the number of skips in 10 minutes.
- She has three different sizes of ropes - 1 meter, 2 meters and 3 meters.
- She asks Marge to time her using a stopwatch and she asks Bart to count the number of skips.

Investigation 4 - Maggie, up, up and away!!!



How many balloons does it take for Maggie to fly away?

- Bart and Maggie are playing with balloons.
- Bart blows each balloon up with 4 puffs of helium.
- He gives them to Maggie one by one and times how long it takes her to start floating off the ground.

Plenary...



Brain storm this....

You are building a brand new indoor tennis center and want to know which surface would be best for a tennis ball.

Use key words in your answer

1. What is **your independent variable**?
2. What is your **dependent variable**?
3. How will you make it **a fair test**?

