

EXPERIMENTS

Name:

Assessment Criteria: Understand that different outcomes may result from repeating an experiment

1. In your science class you have been carrying out a peanut-burning experiment. Rachael is worried because her results are different to yours. What would you say to convince her that this is fine?

2. You toss a coin 100 times and count the number of times you get a head. A robot is programmed to toss a coin 1000 times. Who is most likely to be closer to getting an equal number of heads and tails? Why?

3. You roll a fair six-sided die 60 times. How many fours would you expect to obtain?

4. What is the most number of heads you could get from tossing a coin 6 times

5. Ben tosses a coin 10 times and it lands on a tail every time. He says the coin will always land on a tail and must be biased. Do you agree?

Overall, I think my success level is:

Low High
○ ○ ○ ○

Q	EXPERIMENTS	☺	☹
	I understand that results might vary in an experiment		
	I understand that carrying out an experiment more times gives better results		
	I can work out a likely result from a simple experiment involving equally likely outcomes		
	<i>I can draw simple conclusions of my own and give an explanation of my reasoning</i>		
I need to practise ...			