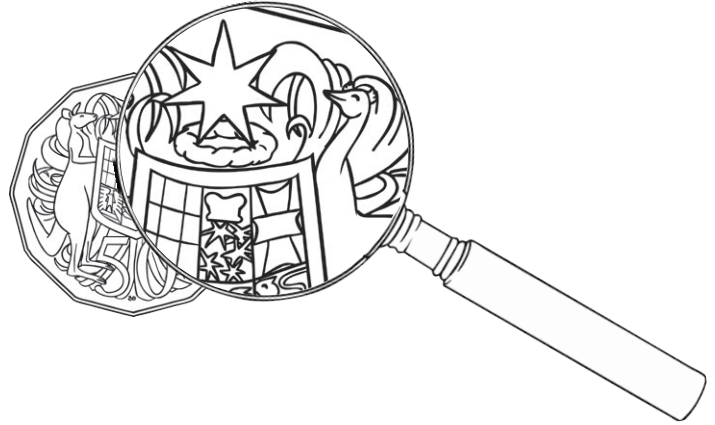# Coin Flip Investigation

Name: _____   Date: _____

I can identify events where the chance of one will not be affected by the occurrence of the other.
(ACMSP094)

Flip one coin 10 times and record each flip as a tally mark.

Equipment I will need:

- 1 x coin
- pencil
- activity sheet

Instructions:

1. Flip the coin.

2. Record the result as a tally mark whether the coin landed on 'heads' or 'tails' in the correct space in the table below.

3. Repeat steps 1 and 2 nine more times (so that you have flipped the coin 10 times).

Coin Flip Results for 10 Flips:

	Tally	Total
Heads		
Tails		

You are now going to repeat the experiment but for 20 flips. Make a prediction on what you think the results will be. Will it be the same as your first set? Why/why not?

My prediction is: _____

_____

Complete the coin flip chance experiment again.

Coin Flip Results for 20 Flips:

	Tally	Total
Heads		
Tails		

Was your prediction correct? Why/why not?

_____

_____

If you were to complete this chance experiment again for 40 flips, do you think the results would be the same? Why/why not?

_____

_____

If you flipped heads five times and tails fifteen times, does this mean that tails will also have the larger number of flips next time you complete this activity? Why/why not?

_____

_____