

Week 6  
Term 1  
2019



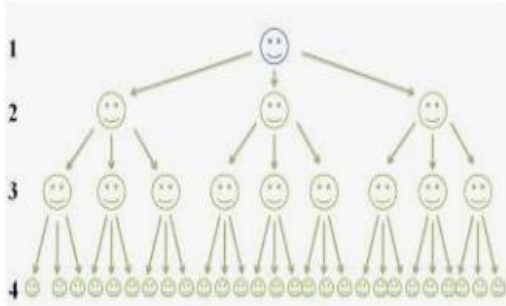
# HAWKER COLLEGE

Engage | Inspire | Achieve

Learning Brief

MA3

## Goals



By the end of this unit students should:

- understand the concepts and skills in bivariate data
- apply reasoning skills and solve practical problems
- communicate their arguments and strategies
- interpret mathematical and statistical information
- use technology appropriately and efficiently

This week:

- arithmetic series
- geometric progressions

## Theoretical Components

### Resources:

For this week the theory work is in the *PDF file*: Week 6 Notes & Exercises

What is a geometric sequence?

<https://www.youtube.com/watch?v=1z8QKFFU3Hc>

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Arithmetic series

$$S_n = \frac{n}{2}[2a + (n-1)d].$$

Geometric progressions

$$t_n = ar^{n-1}$$

### Knowledge Checklist

- Adding terms of an arithmetic sequence
- **Arithmetic series**
- **Multiplying terms**
- **Geometric sequence**

## Practical Components

There are questions to be answered in the booklet *Week 6 Notes & Exercises*

## Investigation

On HawkerMaths and attached to this weeks work

On-line Quiz

None this week.