## Unit Name | Main Ideas | Duration (weeks) | Assessment Item | Due Date
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### Unit 7 – Statistics and Probability
- In this unit students apply a variety of mathematical concepts in real-life, lifelike and purely mathematical situations. Through the proficiency strands - Understanding, Fluency, Problem solving and Reasoning - students have opportunities to develop understandings of:
  - Data representation and interpretation - construct stem-and-leaf plots and dot-plots, calculate mean, median, mode and range, compare a range of data displays, describe and interpret data displays using mean, median and range, identify and investigate issues involving numerical data collected from primary and secondary sources.
- **Duration:** 4 weeks
- **Assessment Item:** Assessed at the end of the term (see below assessment item)
- **Due Date:**

### Unit 8 – Measurement and Geometry
- In this unit students apply a variety of mathematical concepts in real-life, life-like and purely mathematical situations. Through the proficiency strands - Understanding, Fluency, Problem solving and Reasoning students have opportunities to develop understandings of:
  - Location and transformation: describe and create translations, reflections and rotations on the Cartesian plane, use appropriate conventions for naming transformed shapes, identifying a combination of transformations on the Cartesian plane.
- **Duration:** 5 weeks
- **Assessment Item:** Exam
  - **Type:** Short answer questions - Basketball scores and geometry
  - **Date:** Week 8, Friday 24th November

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**Literacy Components**
- **Speaking and Listening:** Participating in discussions and presenting information and ideas to class and groups
- **Reading & Viewing:** Comprehending texts through reading and viewing
- **Writing & Designing:** Composing texts through writing and creating

**Numeracy Components**
- **Number:** calculations involving numerical data
- **Algebra:** create and evaluate formulas
- **Measurement:** angle relationships, geometry conventions, calculating angles. Identify and perform transformations.
- **Space:**
- **Chance & Data:** stem and leaf plots, dot plots, measures of spread and centre

**ICT/Technology Components**
- **Select and use ICTs in the processes of inquiry and research:**
- **Select and use ICTs to create a range of responses to suit the purpose and audience:**
- **Select and use ICTs to collaborate and enhance communication for an identified purpose and audience:**
- **Develop and apply ethical, safe and responsible practices when working with ICTs:**
- **Use a range of advanced ICT functions and applications:** Students will be exposed a range of digital applications to access content