<table>
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<tr>
<th><strong>Year 10 Mathematics A Subdivision</strong></th>
<th><strong>Strand:</strong> Measurement and geometry.</th>
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### The Learning Context

**Objective:**
To subdivide a section of the school playing fields.

- Working in groups, identify a section of the school fields that could be subdivided.
- The area of the subdivision needs to be accurately measured and drawn to scale.
- Groups need to collect relevant information about subdivisions such as legal constraints on the size of sections, widths of roads etc. Local bodies are a useful source for student interviews or expert visits.
- Possibly consider removal of topsoil and the calculation of volumes and costs.
- Extend into pricing for sale of the sections, considering the relevant market conditions, target market and nature of the building types.
- Calculate the size of each section.
- Work with the business studies students to work out costings, business plans and marketing strategies.

### Assessment Ideas

- Plan of subdivision produced with areas calculated.
- With specifications and calculations included.

### Key Competencies

- Managing self.
- Relating to others.

### Enterprising Attributes

- Decision making.
- Problem solving.
- Visionary.
- Learning from mistakes.
- Negotiating.

### Content

- Areas of polygons and composite shapes
- Metric units.
- Volume.
- Possibility of flowing into other bits of geometry.

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