

## Outline Drafting 10-12

### BIG IDEAS

Social, ethical, and sustainability considerations impact design.	Complex tasks require the sequencing of skills.	Complex tasks require different technologies and tools at different stages.
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Drafting is the process of producing plans and 3D illustrations of a product that is to be constructed. Drafting is a vital skill for many different occupations, some of which are architects, engineers, interior designers, fashion designers, machinists, carpenters and many many more.

This course is offered in levels. This allows the student to enter the course at anytime and be taught at the level that best suits their knowledge. Whether the student has never taken drafting or has taken drafting every year since grade 9.

There will an emphasis of solving real world problems, through the application of the design process.

#### Topics

##### Pencil drafting

- Orthographic drafting
- isometric drafting
- Perspective drafting
- Cross sections

##### Computer drafting (autocad)

- Orthographic drafting
- isometric drafting
- Perspective drafting
- Cross sections

##### Computer drafting (Revit)

- Architectural drafting
- Floor plans
- 3D rendering of house design
- Including landscape

3D printing

The design and production of a product using a 3D printer