



## 3055 BA SANGAM COLLEGE

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**WEEK: 11**

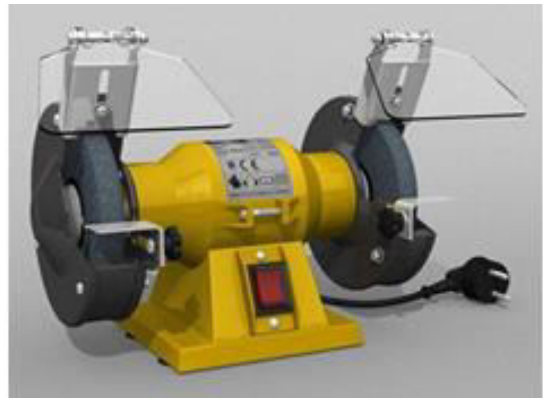
### LESSON NOTES:

<b>Subject:</b> Applied Technology	<b>Year/Level:</b> 11
<b>Topic:</b> GRINDING MACHINE	<b>Date:</b> 09/08/21

### LESSON NOTES:

#### Grinders:

- A grinding machine, often shortened to grinder, is any of various power tools or machine tools used for grinding, which is a type of machining using an abrasive wheel as the cutting tool.
- Each grain of abrasive on the wheel's surface cuts a small chip from the work piece via shear deformation.



#### Angle Grinder:

- An angle grinder, also known as a side grinder or disc grinder, is a handheld power tool used for cutting, grinding and polishing.
- Angle grinders typically have an adjustable guard and a side-handle for two-handed operation.
- There are many different kinds of discs that are used for various materials and tasks, such as cut-off discs (diamond blade), abrasive grinding discs, grinding stones, sanding discs, wire brush wheels and polishing pads.



**Safety:**

- Angle grinders are widely used in metalworking and construction, as well as in emergency rescues.
- They are commonly found in workshops, service garages and auto body repair shops angle grinders produce sparks when cutting ferrous metals.
- They also produce shards cutting other materials. The blades themselves may also break. This is a great hazard to the face and eyes especially, as well as other parts of the body, and as such, a full face shield must be worn and other protective clothing.
- Angle Grinders should never be used without their guard or handle attached; they are there as a necessary precaution for safety.
- All work should be securely clamped or held firmly in a vice.

**STUDENTS ACTIVITY:**

1. Explain the process that this machine is used for.

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2. Name another portable power tool that plays the same role as grinder does.

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3. Why do we use face shield when grinding?

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**Reference:**

Year 11 Applied Technology Textbook, MEHA.