

**FGGFGUMANI TECHNICAL HIGH  
LESSON PLAN  
MECHANICAL TECHNOLOGY  
CHAPTER 4 MATERIALS GRADE 12**

**DURATION:** four hours

**CONTEXTUAL:** Learners will be able to identify materials by the: 1. sound test, bend test, filing test, machining test.

2. Apply methods of enhancing the properties of steel: tempering, case hardening, hardening, annealing and normalising.

3. Test four different types of materials using the: sound test, bending test, filing test and machining test

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**DAY: 2 ENREACHMENT CLASSES 2024**

**CARBON CONTENT**

1. Low carbon steel
2. Medium carbon steel
3. High carbon steel

**LOW CARBON STEEL**

**PROPERTIES:**

- Contains 0,1% - 0,35 % of carbon
- Malleable
- Ductile
- Weldability is good
- Easy to be drawn into wires or rolled into sheets
- Easy to manufacturing process

**Heat treatment:** Annealing, hardening and tempering

**USES:** Normal bolts and nuts, nail, wire, split pins and pins.

**MEDIUM CARBON STEEL**

**PROPERTIES:**

- Contain 0,35% - 0,75% of carbon
- Has increased strength and harder
- Low ductility
- High resistance abrasion
- Low machine ability and weld

# 2014 Grade 12 Exemplar For Mechanical Technology

**Rachel S Tattersall**



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