

SUMMER TASK

ENGINEERING

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In preparation for year one, you have some work to do over the summer.

TASK 1

Materials

Unit 2 of the course has a section about the properties of materials.

For each of the list of properties at the end of this section

- a) Provide a description of what that property means
- b) Provide an example of a practical application where that property would be useful.

You may already have some idea of what some of the properties mean, while for others you might not be aware of at all. To get a technical answer research these properties (even the ones you think you know) and find an exact definition.

A good example of a website containing helpful information can be found here:

<http://www.technologystudent.com/joints/matprop1.htm>

<http://www.technologystudent.com/joints/matprop2.htm>

Although there are many other websites and books which would also be correct.

Material Properties

1. Strength
2. Elasticity
3. Plasticity
4. Ductility
5. Tensile Strength
6. Malleability
7. Toughness
8. Hardness
9. Conductivity