



FURTHER READING

Want to know more? Visit the below sites:

- http://www.technologystudent.com/despro_f1sh/revise6.html
- <https://www.bbc.com/bitesize/guides/zn4bcj6/revision/4>



KEY KNOWLEDGE

Sustainability is Avoidance of the depletion of natural resources.

Finite Resources e.g. Ore and Oil

Materials which are in limited supply. Use of these should be avoided where possible or only used in small amounts.

Non Finite Resources e.g. Trees and Plants

Materials in abundant supply and are unlikely to ever run out or ones that can be grown again.

The impact of the use of resources can be measured by the following:

CO2 emissions / Transportation method and distance travelled / Impact on the environment through mining or harvesting / Availability or scarcity / Maintenance or repair costs / Ethical and moral issues

Technologies that have a **positive impact**:

- Renewable materials from managed resources
- Use of renewable energy
- Using recyclable materials
- Consideration to the 6r's
- Designing products with low power consumption
- Designing products with fewer components and reduced weight

Technologies that have a **negative impact**:

- Use of finite/non-recycled materials
- Use of components that are hard to repair
- Use of fossil fuels for power
- Products with high power consumption
- Products that have built in expiry dates
- Components that are shipped globally

Design

SPEAK
READ
ARTICULATE
THINK
QUESTION
WRITE
SPELL

Technology

Consideration to waste disposal has an impact on the environment and a product life cycle.

Businesses are charged for waste disposal, reducing waste disposal will save money.

The effects of careful consideration of waste disposal within a business are:

- Less raw materials required
- Reusing waste materials/components within a company
- Sale of recyclable waste
- Energy to heat and power a business could be generated from their own waste



KEY VOCAB

Sustainability Finite
 Non finite
 Life cycle
 Continuous improvement
 Waste disposal

_____ improvement is a process by which manufacturers are constantly trying to _____ their products. Some improvements can have a _____ impact such as designing products with fewer _____ or using _____ materials. However, some improvements can be damaging such as high power consumption are large _____ footprint.

(carbon) - (recyclable) - (continuous)
(positive) - (components) - (improve)