



Want to know more? Visit the below sites:

- http://www.technologystude nt.com/despro_flsh/revise6. html
- https://www.bbc.com/bitesiz e/guides/zn4bcj6/revision/4



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:

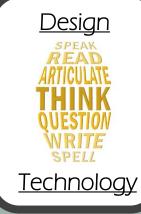
CO2 emissions / Transportation method and distance travelled / Impact on the environment through mining or harvesting / Availability or scarcity / Maintenance or repair costs / Ethical and moral issues

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



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



Sustainability Finite

Non finite

Life cycle

Continuous improvement

Waste disposal

improvement is a process by which manufacturers are 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)