**Task 8: Environmental, ethical and economic issues related to the production of materials.**

Your task for Unit 2 is to examine the environmental, ethical and economic issues that arise during the production of materials. You need to consider both the advantages and disadvantages when discussing these issues.

**Task: Produce a PowerPoint presentation that examines the environmental, ethical and economic issues related to the production of materials.**

**You need to include:**

* **Why materials need to be recycled**
  + Paper
  + Plastics
  + Metals
  + Glass
  + Batteries
* **How extracting and manufacturing processes are run to be as non-polluting and unobtrusive as possible**
  + Reducing sulphur dioxide pollution from burning coal
  + How fertiliser manufacturers reduce pollution
  + Reducing pollution from quarries
  + Ways of making mines less obvious
* **The importance of finding uses for side products and waste**
  + Re-using carrier bags at the supermarket
  + Making new products from waste
* **The effects on local people**
  + Housing
  + Transport
  + Jobs
  + Public health
  + Landscaping
* **Impact of new materials**
  + Advantages of using asbestos in buildings vs the disadvantages that we now know of
  + Advantages and disadvantages of the development and use of nano-technology
  + Advantages and disadvantages of the development and use of ‘smart’ materials

**REMEMBER: You need to include your own ethical judgements!**

**AO6: Grading criteria**

**PASS:**

Candidates **briefly describe** some of the ethical and environmental issues related to material production and they make **basic** ethical judgements.

Candidates use ICT sources or tools to gather or present their data.

**MERIT:**

Candidates **describe in detail** a wide range of ethical and environmental issues related to material production and they make **sound** ethical judgements.

Candidates use ICT sources or tools to gather or present their data.

**DISTINCTION:**

Candidates **describe in great detail** many of the ethical and environmental issues related to material production and they make **ethical judgements that are fully reasoned**.

Candidates use ICT sources or tools to gather or present their data.

Their evidence is well structured.