







During this topic you will develop and demonstrate the following PLTS:

Subject: Design Technology

Year: 7 Teaching block: 1

Topic: Plastics in Every Day Life

Assessment week: 3rd Dec

| | | | |
|---------------------------|---|-----------------------------|---|
| Creative thinker ✓ |  | Team player ✓ |  |
| Reflective learner ✓ |  | Effective participator ✓ |  |
| Independent enquirer ✓ |  | Self- manager ✓ |  |

| What I will learn? | Completed | RAG |
|--|--------------------------|-----|
| How to use abstracting to create design ideas | <input type="checkbox"/> | |
| How to sketch in isometric | <input type="checkbox"/> | |
| How to render effectively | <input type="checkbox"/> | |
| How to use 'crating' effectively | <input type="checkbox"/> | |
| The health and safety rules within the technology workshop | <input type="checkbox"/> | |
| About plastic types, stock forms and injection moulding | <input type="checkbox"/> | |
| How to use the strip heater | <input type="checkbox"/> | |
| How to make a successful cardboard package (net) | <input type="checkbox"/> | |

Key vocabulary for this topic:

| Key Word | Definition | Key Word | Definition |
|----------------|------------|------------------------|------------|
| isometric | | thermosetting plastics | |
| rendering | | nets | |
| abstracting | | pillar drill | |
| crating | | strip heater | |
| thermoplastics | | tensol cement | |
| acrylic | | | |

HOMEWORK

Independent Study

| What? | When? | Tick when completed |
|---|--------------------------|---------------------|
| Use website to learn about isometric drawing – you will use this skill in the next lesson | w/c 10 th Sep | |
| Update knowledge organiser and complete key word definitions | w/c 15 th Oct | |
| Create your own revision material on all of the topics covered in this teaching block | w/c 12 th Nov | |
| Revision for assessment | w/c 26 th Nov | |

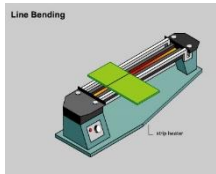
Plastics in Everyday Life

KNOWLEDGE ORGANISER

Abstracting

What is it?

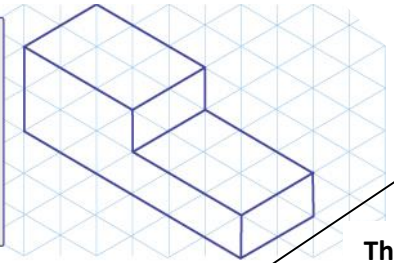
How does it help with designing?



Isometric Drawing

http://www.technologystudent.com/despro_flesh/graphics_iso1.html

Isometric grid paper is made up of many small cube shapes.
 When creating the 3D drawing, it can be a good idea to first produce the outline of a single side.
 It is then a matter of extending lines from each corner to create the full representation.



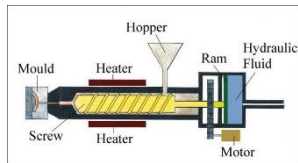
Thermoplastics Explanation

Thermoplastics Examples

Thermosetting Plastics Explanation

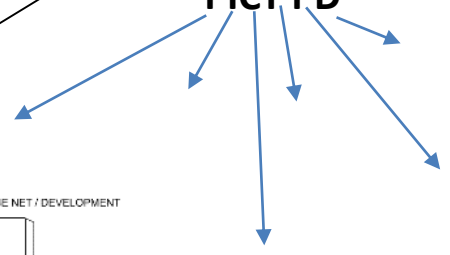
Thermosetting Plastics Examples

Plastic Processes



Packaging

PICT PD



Health and Safety Rules in the Workshop

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

NETS

