**A level Product Design**

**Task 1**

Using the material provided Design and make a Portable media player.

Decide on the functions (what will it do!)

USER -Small Child/75+ male or Female / Male with visual impairment

**OUTCOME – First lesson in September**

**Write a Design Brief (top left of your design page)**

1) Produce a Sketch Design page

2) 1:1 Portable media player in Blue foam

3) Produce a 3D drawing of your final piece.

**Task 2**

Research the following areas and produce a PowerPoint presentation on the following areas.

Include a definition / examples / uses / stock forms/ properties of the following materials areas

**ferrous:**

• low carbon steel / stainless steel / high speed steel (HSS) medium carbon steel

**non-ferrous:**

• aluminium / copper / zinc / silver / tin

**ferrous alloys:**

• stainless steel / die steel (tool steel) / non-ferrous alloys: / bronze

**non-ferrous alloys**:

• bronze

You should also be aware of how metals can be shaped into 3D products.

They should be able to describe the different forming methods.

Specific processes to include:

* press forming, spinning, forging, bending, rolling, casting:
* sand casting
* die casting
* Investment casting
* low temperature casting (pewter).