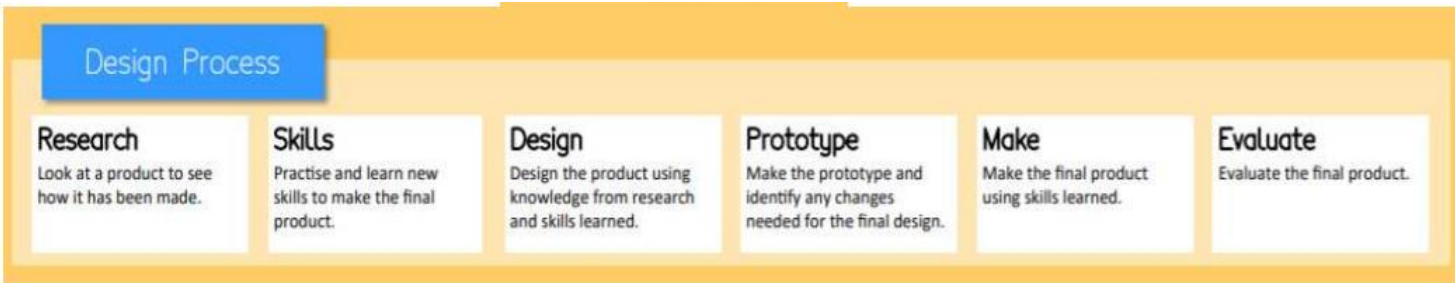




Key Vocabulary	
<b>Free – Standing Structure</b>	a structure that stands on its own foundation or base without attachment to anything else.
<b>Foundation</b>	the basis of something
<b>Vertical</b>	straight up and down; upright.
<b>Product</b>	something made by means of either human work or that of a machine
<b>Component</b>	a part of something
<b>Prototype</b>	an original model on which later stages or forms are based or developed
<b>Reinforcement</b>	something that strengthens, reinforces, or supports
<b>functionality</b>	refers to whether a design works and helps the users meet their goals and needs.

Prior Learning – sticky Knowledge I have.
<p>I know the components, materials and features of different structures.</p> <p>I know ways of joining and strengthening materials.</p> <p>I can select materials and tools required to make a structure.</p> <p>I know the features of a castle and playground equipment.</p> <p>I know a range of 2D and 3D shapes.</p> <p>I can construct a 3D net.</p> <p>I can cut and fold confidently.</p> <p>I can remember different ways I can decorate a finished structure.</p>

What I will learn – new sticky knowledge.
<p>I will be able to explain the term free- standing structure.</p> <p>I will be able to explain what gives free- standing structures, strength and stability.</p> <p>I will be able to use different techniques to join card to other materials.</p> <p>I will have developed practical skills to help me make bends in a marble run.</p> <p>I will remember the materials and components that work well functionally to help my marble run.</p>



**Challenge**

Can you include a 90-degree turn in your marble run track?

- We are Aspirational Leaders: \* Responsibility and respect \*Creativity, innovation and curiosity \*Confidence and resilience



**Key Vocabulary**

How well do I understand our key vocabulary?



**Structure**

**Foundation**

**Vertical**

**Product**

**Component**

**Prototype**

**Reinforcement**

**functionality**

**What sticky knowledge can I remember from my learning?**

**Challenge**

Can you include a 90-degree turn in your marble run track?

