Places of local interest:
- The Wave
- Bristol Aquarium
- The Wild Place
- Aerospace Bristol
- SS Great Britain
- Bristol Museum & Art Gallery
- We the Curious
- Bristol University Botanical Gardens
- The M Shed

Marketed Momento's

The BIG Picture

Context: Popular tourist attractions such as Wildlife Sanctuaries, Art Galleries, Animal Farms, Zoos, Theme Parks and Museums often have their own Shops attached. Themed products are always a popular feature.

Design Brief: Design and make a range of merchandise / mementos for a specific target audience, that can be sold in the gift shop of a place of local interest.

Learning Objective: Work with a wide range of processes and materials SO THAT you further develop your design, making and evaluating skills while building your technical knowledge.
- Build your technical knowledge and practical skills using specialist workshop and industrial equipment.
- Further develop your drawing and CAD skills so that you can communicate design idea in 2D & 3D.
- Further develop your materials knowledge with an introduction to metals and the 6R's.
- Work as a designer – Design to a brief and specification whilst considering the wants and needs of a target audience
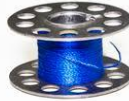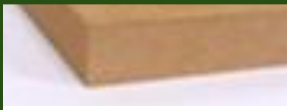
Assessment: During this project, you will be formally assessed on the four main stands of the national curriculum (designing, making, evaluating & technical knowledge). The assessments will be a mixture of skills based and knowledge-based tasks. You will reflect on your assessments by identifying your successes and the elements you could improve.

Key Terminology

Design Technology Skills		Project Skills	
Resilience	Research	Measuring	CAD / CAM
Perseverance	Designing	Marking out	Threading
Independence	Modelling	Cutting	Machine Sewing
Teamwork	Assembling	Drilling	Screen printing
Health & Safety	Making	Shaping	Pattern Cutting
Quality Control	Manufacturing	Casting	Template
Problem solving	Critique	Moulding	Seam
Iteration	Analysis	Filing	Seam allowance
Prototyping	Evaluating	Specification	Box corners
6 R's	Environment impact	Isometric drawing	Iterative design

Equipment & Materials

2D design (2D CAD software)	**Inventor** (3D CAD software)	**Laser cutter**	**Glass Paper**	**Wet & dry**
Pillar drill	**Metal files**	**Junior hacksaw**	**Coping saw**	**Scroll Saw**
Sewing machine	**Bobbin**	**Heat press**	**Screen printing**	**Squeegee**
Hearth	**Visor**	**Safety glasses**	**Moulds**	**Vacuum former**
Calico (Cotton - Natural Fibres)	**HDP - High Density Polyethylene** (Thermoforming plastic)	**PET – polyethylene terephthalate** (Thermoforming plastic)	**Pewter** (Metal)	**MDF - Medium Density Fibreboard** (Manufactured board)