



Putteridge  
High  
School

# Extended Learning

## 3D Design

### Years 7 & 8



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# 3D Design Year 7



## Extended Learning Opportunities

**Subject: Technology - Three dimensional design**

**Year: 7**

**Term: Autumn, Spring and Summer**

**Topic: Skill based learning**

### **Learning Objectives**

- Be able to give some general guidance for safe working
- Demonstrate how to work safely within the workshop
- Recognise common health and safety symbols and the use of appropriate personal protective equipment
- Recognise the importance of safety when using workshop tools, equipment, machines and components; and recognise potential hazards in products, activities and environments.
- Follow safety guidelines while working with equipment
- Identifying the difference between a risk and a hazard
- Learn how to apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
- Select from and use specialist tools, techniques, processes, equipment and machinery safely
- Demonstrate an understanding of the main features and applications of the hand tools and machine tools

### **Extended Learning Opportunities**

- Visit the following websites for 'health and safety' and produce a poster on how to use the scroll saw and pillar drill safely. This will be displayed in the workshop.  
<http://www.technologystudent.com/health1/consafe1.htm>
- Visit and read the information on the BBC bite size website about Health and safety. Produce a leaflet that could be given to a year 6 pupil to explain the safety within the workshop to stay safe.  
<http://www.bbc.co.uk/schools/gcsebitesize/design/resistantmaterials/designhealthrev1.shtml>



- Write down 10 rules that everyone needs to follow when working in the workshop on A4 paper then hand to your teacher to be displayed in the classroom.
- Visit the following two websites for information about the safety on the use of a scroll saw. <http://www.technologystudent.com/health1/ed6.htm>  
<http://www.technologystudent.com/health1/ed7.htm>



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# 3D Design Year 8



## Extended Learning Opportunities

**Subject: Technology - Three dimensional design**

**Year: 8**

**Term: Autumn, Spring and Summer**

**Topic: Game in a Box**

### **Learning Objectives**

- Learn how to find additional information about use, safety, appropriate care and storage on packaging itself, along with information about recycling packaging.
- Develop student's accuracy with graphics tools.
- Learn new drawing and sketching skills
- Learn how to follow a design brief and follow a specification from consumer information.
- Develop student's knowledge of product analysis PMI (Positive, Minus, Interesting)
- Learn how to work safely and consider others.

### **Extended Learning Opportunities**

- Modify an existing product or design a brand new one. e.g a dyson vacuum. Make sure you annotate the design explaining why you have designed it the way you have. Make sure you include details of materials, ergonomics, and processes.
- Produce an information sheet A4 that detail the properties of a material you have used in class OR a process that you have been told about in class.
- Visit the following BBC bitesize website and produce and make or design a produce that covers all of these points social, moral environmental and legal issues  
<http://www.bbc.co.uk/schools/gcsebitesize/design/resistantmaterials/designsocialrev1.shtml>
- Visit the following website for information about GCSE options in three dimensional design, otherwise speak with your teacher.  
<http://filestore.aqa.org.uk/resources/art-and-design/AQA-GCSE-ART-STUDENT-GUIDE.PDF>
- Also attend the Year 8 options evening Thursday 7th February 6:30pm