

## Year 9 Design and Technology questions

Below are a selection of questions relating to topics you have covered in Design and Technology. There are a selection of answers so use the word and picture bank provided to help. Please email me if you have any questions and good luck. ITaylor@bower-grove.kent.sch.uk

1. Below are a selection of machines located in the workshop, can you identify them? 1 mark for each.



A) P\_\_\_\_ D\_\_\_\_



B) F\_\_\_\_ S\_\_\_\_



C) B\_\_\_\_ S\_\_\_\_

Belt Sander

Pillar Drill

Fret Saw

Coping Saw

Tenon Saw

Sander Paper

Goggles

Apron

Band Saw



D) T\_\_\_\_ S\_\_\_\_



E) C\_\_\_\_ S\_\_\_\_



F) B\_\_\_\_ S\_\_\_\_

2. Complete this sentence below relating to softwood and hardwood trees.

In general, h\_\_\_\_\_ comes from d\_\_\_\_\_ tree's which lose their l\_\_\_\_\_ annually. S\_\_\_\_\_ comes from conifer, which usually remains e\_\_\_\_\_. The trees from which hardwood is obtained tend to be s\_\_\_\_\_ growing, meaning the wood is usually d\_\_\_\_\_.

|           |           |        |        |
|-----------|-----------|--------|--------|
| Softwood  | Hardwood  | Denser | Leaves |
| Deciduous | Evergreen | slower |        |

3. Please select one answer that you believe best relates to safety in Design and Technology. Tick one answer.

- A) Leave tools out on workbench when finished, the more noise the better and no need for safety equipment as I don't need it
- B) Follow instructions of the adults, wear safety equipment provided and use all equipment with care and attention
- C) Ignore the rules of the classroom, use tools incorrectly and distract others.

4. Can you identify the following signs relating to safety around the classroom?



E \_\_\_\_\_ S \_\_\_\_\_



F \_\_\_\_\_ A \_\_\_\_\_



S \_\_\_\_\_ R \_\_\_\_\_



E \_\_\_\_\_ E \_\_\_\_\_



W \_\_\_\_\_ H \_\_\_\_\_



F \_\_\_\_\_

|              |                |            |
|--------------|----------------|------------|
| Flammable    | Emergency Exit | Fire Alarm |
| Safety Rules | Emergency Stop | Wash Hands |

Write in your answers using the word bank provided, one mark for all.

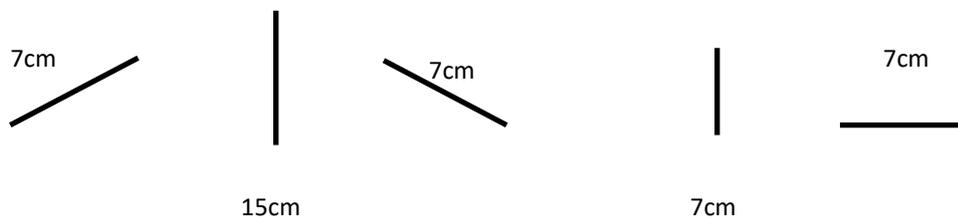
5. Using the steel rule provided can you identify and mark on the ruler these following measurements?



Example 10cm or 100mm

- A) 10mm
- B) 225mm
- C) 4cm
- D) 28.5cm
- E) Example 10cm or 100mm

6. Sticking with measurements, can you identify and create the design using these measurements? You will need a piece of paper and a ruler for this task. You can then write your answer in the box provided.



What design did you create? B\_\_\_ B\_\_\_

Tip, this is a design you would of covered in year 8, created using softwood and following a design set out by the class teacher. Think back to a task that would benefit keeping a certain animal warm and safe, and where they could watch the world fly by!

If you need further help, email me:

ITaylor@bower-grove.kent.sch.uk

## 7. Design Process

Use the following words to answer the 4 questions below.

Design Problem   Research   Specification   Evaluation

Brief Design   Idea Annotation

What is a list of rules used to aid your design work?

\_\_\_\_\_

Gathering information from the internet and books is called what?

\_\_\_\_\_

At the end of any project you should carry out what?

\_\_\_\_\_

To add notes and further information to a design idea is known as?

\_\_\_\_\_

When carrying out any design there are certain principles to follow. You need to specify your list to aid your design. Researching by gathering information from the internet and books will give you a clearer understanding of your design. When you complete any project you should try to evaluate to see what went well, what has been learnt and what could be adapted next time. And finally, when adding notes or information to design, your ideas should be annotated to give you clearer direction.

8. Can you identify the following tools used in Design and Technology, using the word bank provided at the bottom to help you. One mark for each.

L\_\_\_ N\_\_\_ P\_\_\_



W\_\_\_ A\_\_ V\_\_\_



G C\_\_\_



H\_\_\_



S\_\_\_



M\_\_\_ B\_\_\_



Workbench and  
Vice

G Clamp

Long Nosed Pliers

Mitre Block

Screwdriver

Hacksaw

Please email me if you have any problems answering any of the sections of the home learning pages. And I look forward to seeing your completed answers.

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