



Year 12
Summer Transition Work

D & T Product Design
Exam Board – AQA

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Y12 A Level Design and Technology:

Product Design

I hope you are all well and keeping safe. I thought I would set you a challenge. Below you will find 3 contextual challenges, please read the 3 challenges and then follow the instructions on what I want you to do next.

Contextual challenges:

1. Student living. Design a 3D prototype(s) for a product that will improve the experience of living in student accommodation.
2. The junior gardener. Design a 3D prototype(s) for a product to help young children grow their own fruit or vegetables.
3. Inspirational structures. Design a 3D prototype(s) for a product that makes use of shape, form and pattern seen within inspirational structures.

- Create a list of different possibilities/products that could be made for number 1. Example it could be multipurpose, space saving as students accommodation/halls can be rather small/compact. Think of the different rooms that they will use, bedroom, bathroom, kitchen and living room. What products would a student benefit from in these rooms that they currently may struggle with or benefit from it being altered/modified to work better for them in that given space.
I suggest you Google student's halls accommodation to allow you to visualise the environment that students live in.
- Guess what? I want you to do the same for number 2. You may benefit from visiting a garden centre or to go to somewhere like B and Q to see what products are available for growing fruit and veg from. Remember with this one the target audience is Children so the design needs to be child friendly and also visually attractive for children. What toys do children play with? Could this be a theme to use to create a product that they grow fruit/veg in. It needs to maintain their attention and for them to not ignore it after a couple of times of seeing / watering it.
Some people don't have gardens so window boxes are the only option to grow.
Strawberries are really easy to grow. They are called strawberries because people used to put straw under the fruit from stopping them rot when growing and sitting on the soil.
- Now number 3. The key words here are inspirational structures; can you remember when you did shape extraction when you designed your trainer in Y9? That is what you need to do here, pick out exciting/interesting shapes and use these to create any product. The benefits of this

context is that there is no specific target audience/client and it can be any product. One example of what I have done with this theme before with a Y13 was to use the Birds nest stadium in China as inspiration and he made a reclining chair for his parent's conservatory using the steel structure shapes of the stadium in his design.

- I need you to create a list of possibilities for all 3, don't worry how crazy the thoughts/ideas are.
- Do not just do one design for each, I need you to think of as many as you can please.
- **Keywords to help you for Number 1 are:**

Room – current problem/issue – how could it be improved? – sketch ideas that improve it for students.

- **Keywords to help you for Number 2 are:**

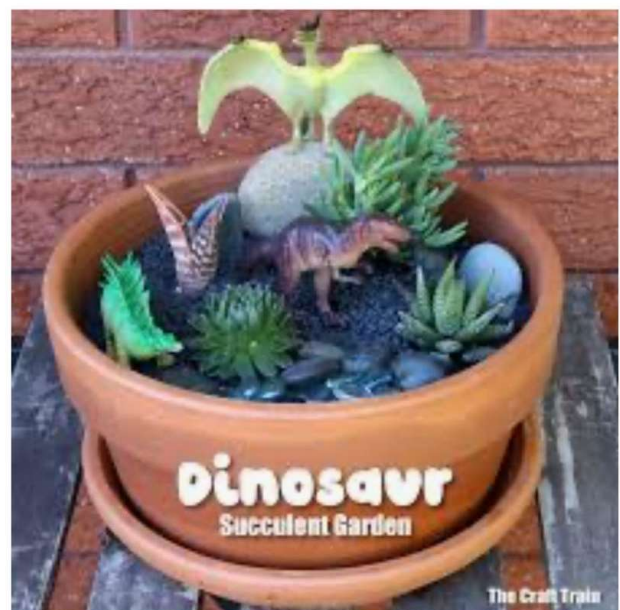
List different fruit and veg they could grow – What style/look would interest children (games, toys that they play with in the home or outside to influence your product - how can it look visually interesting and maintain interest – sketch ideas.

- **Keywords to help you for Number 3 are:**

Inspirational structure – which part of structure to extract – target audience/client – environment/room for it to go in – type of product e.g. chair – sketch ideas.

Over to you, there is no right or wrong answer so just try to be as creative as you can.

Zest4Leisure Junior Potting Table



Dinosaur succulent garden | The Craft ...

A Beginners Guide to Gardening with K...
messymotherhood.com



fairy gardens to build with your kids ...
pinterest.com



 Tekla

Olympic Stadium: Bird's Nest | Tekla

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