

Welcome to Design and Technology

Department Goal = Innovative Design to inspire, develop and solve real world situations

Meet the Heartlands Design and Technology Team



Mr M. Vardy - Head of Design and Technology



Miss L. Chattaway – Lead Teacher of Cooking and Nutrition



Mr J. Hickie – Teacher of Design and Technology



Mr S. Allen – Design and Technology Technician

Mrs B. Wilson – Food and Nutrition Technician

A warm welcome to all of you starting Heartlands Academy in September.

This is not how we envisioned you learning about your new school and your subjects but here we are!

At Heartlands Academy, Design and Technology is split between 4 rotations. Throughout the year you will rotate around the four areas of Technology including Resistant Materials, Cooking and Nutrition, Textiles and Graphic Design. Developing a knowledge and skill base in each area. We strive to allow pupils to develop creative solutions to real world problems.

Can you name the tools?



Tenon Saw

Pillar Drill

Scroll Saw

Pencil

Try-Square

Belt Sander

What tool would I use if.....

- I wanted to cut a straight line?
- I wanted to mark a line at 90 degrees?
- I wanted to mark the centre of a hole?
- I wanted a curved edge?
- I wanted to improve the quality of surface finish.

What is your favourite design?

- Think of the products you use at home. Which is your favourite and why.
- What does it do?
- What do you use it for?
- How does it help you?
- How does it work?
- Do you know who designed it?

Do you know the 6'R's of Design and Technology?

- R

- R

- R

- R

- R

- R

Now can you match the 6'R's to their definition?

- **R** : Use a product to make something else with all or, parts of it.
- **R** : Reprocess a material or product and make something else.
- **R** : Don't use a material or buy a product if you don't need it or if it's bad for people or the environment.
- **R** : When a product breaks down or doesn't work properly, fix it.
- **R** : Do we make too many products? Design in a way that considers people and the environment.
- **R** : Cut down the amount of material and energy you use as much as you can.

RETHINK

REDUCE

REFUSE

REPAIR

REUSE

RECYCLE

Your turn to be creative

- Design a product you think would be useful when starting a new school. This could include a map, School bag, Uniform, Design of the classroom etc.

Design 1,

Design 2,

Design 3,

Design 4,