Hi, welcome to Design and Technology at Finham Park 2.

In our school, we call the D&T Department the corridor of awesome, where you'll make lots of cool products, design amazing solutions to problems and learn about our technological world!

The trick with designing and making a great product is all about the skill in getting your ideas so that someone can see what exactly you're thinking.

To get an idea of what we would expect from you, we're setting you a design and making challenge in your very own homes. See the task below, and make sure to bring it when you join us at Finham Park 2 and prizes will be awarded for the most interesting, cleverest, and simply amazing ideas!

We're really looking forward to meeting you and working with you in the workshop!

## Task One

# The Problem

The standard computer mice which are supplied for use with computers are designed to accommodate a range of adult hands.

They are not, therefore, completely suitable for use in schools, where the average hand size is much smaller.

1. Can you use the diagram of a hand on the right to show us what dimensions you think you'd need to be able to design a computer mouse?

2. Using the internet or asking people in your house, can you list at least 3 needs for the user of a computer mouse?

3. Can you find out what this is called? (HINT: It's a long word!)

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## Task Two - Designing

'Apple Magic' mouse (2009)

A 'multi-touch' mouse, the whole curved surface of the Magic mouse is sensitive to touch, like an iPhone screen. Users' fingers interact much more with the surface, particularly when browsing on the Internet.

On the left is a great example of a design for a mouse for a computer.

Apple created this amazing simple product that achieved all the functions of a normal mouse but used other technology to make it that one step better than the normal mice you'd see day to day.

We want you to take the design of the computer mouse, and using your brilliant ideas, make it that one step better!

To help with this we've added a few ideas of products below and even an example of what one of our students did to a mouse.

## Chosen Idea

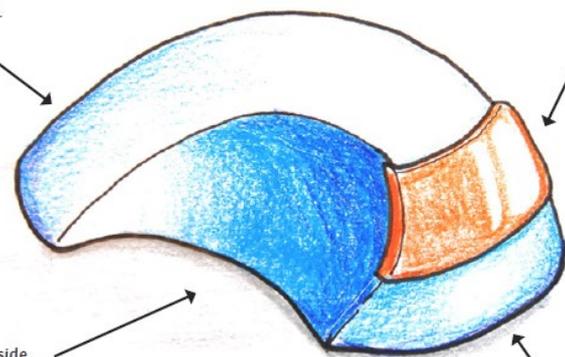DO YOU WANT TO STAND OUT FROM THE CROWD CHALLENGE?

Can you use recycled bits of bottles, cardboard boxes and waste packaging to create a model of your idea?

You could use simple things around your house to show us exactly what you want your product to look like...

Softly sloping back so wrist doesn't sit at an uncomfortable angle.

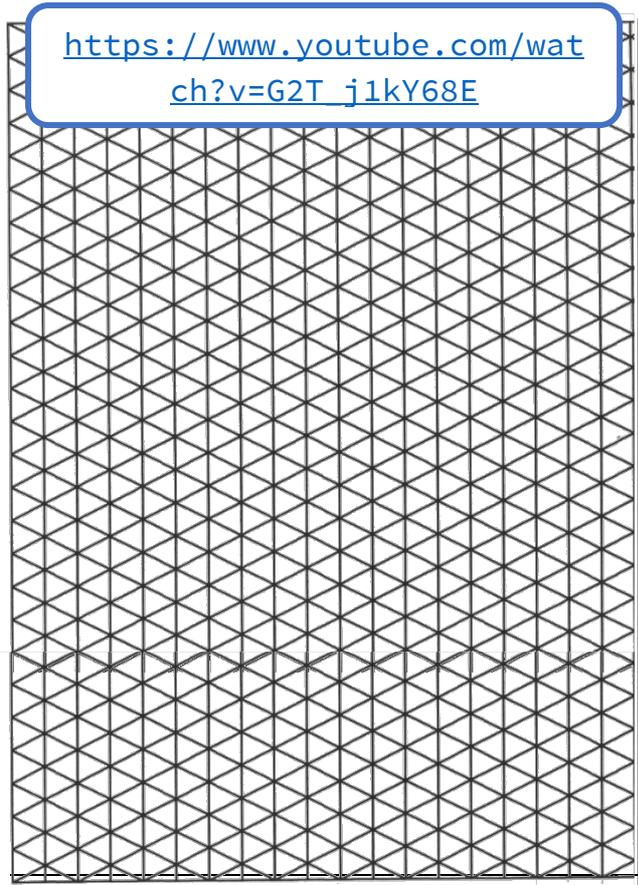Wide wraparound button at 'finger grip'.

Cutaways on either side, saving space and weight as well as improving grip.

Wide front so fingers can rest spread out.

Use this grid to help lay out your design ideas…

https://www.youtube.com/watch?v=G2T_j1kY68E

https://www.youtube.com/watch?v=3S9PbvwaQJo

https://www.youtube.com/watch?v=_JK73WLM3xQ