

Design Technology - Week commencing 11th May 2020 until the end of term

Just as in the story of The Most Magnificent Thing, all inventors need to have a growth mindset and challenge any obstacles that happen in the design process.

First of all watch this film all about an inventor.

<https://www.bbc.co.uk/teach/class-clips-video/pshe-ks1-ks2-proud-to-be-an-inventor/zrf76v4>

It is a good film clip about inventions through time and what it takes to be an inventor. It moves to the present day invention of centifloat that is used to save people.

Another film you could watch is the following Horrible Histories clip which shows in a funny way inventions and inventors throughout history.

<https://www.bbc.co.uk/iplayer/episode/b092kxkx/horrible-histories-series-7-6-ingenious-inventors>

The next clip you can watch is from America about a young inventors competition programme. I particularly like the young inventor's toilet flusher reminder!

https://www.youtube.com/watch?v=QR_CfFuDWQ8

Now it's your turn! Invent something of your own, it might be to help someone or solve a problem. If you're not sure where to start think about things that don't work very well or problems you or a family member have in your lives that need solving. While we're all in lockdown your problem could be linked to not being able to go out as much or keeping your distance from other people. When you've got the problem, think about what could fix it. Now using lego, junk, straws, building blocks or anything else in your house (with your parent's permission) have a go at building it or drawing it. When you've built it, why not post a photograph of it, or post a video explaining how your invention will work. We look forward to seeing your ideas!

For added help – explore this website <https://www.littleinventors.org/> Have a look at this webpage <https://www.littleinventors.org/events/little-inventors-daily-challenges/info> which gives a list of daily challenges of things to build. There are some great ideas – how to exercise your pet indoors, draw or make a secret door, build something to keep people 2 metres apart, make something to help a lonely person. With your parents' permission, you can enter into the competition too, but make sure your parents see it first. <https://www.littleinventors.org/makers/> this section introduces you to inventors and tells you a bit about them. Many of them are involved in animation, and using 'stop motion' a free app on ipads, you could if you want to, show the construction of your invention on ipads if you have them as a mini film. It is very easy to use, you just have to remember to take the photographs from the same place each time and keep the model in place so that the film is seamless. (Some of you made the arches and stacks films about the Yorkshire coastline with playdough last year) <https://www.littleinventors.org/collections/> - this section of the website shows challenges that have been set in the past to help protect our environment, which would be particularly beneficial for all of us. During Lockdown, the use of cars has reduced tremendously, and so the quality or freshness of the air we breathe has improved. Could you design something that is fun to use that would stop us going back to using the car?

Activity 2 - When you watched the story of The Most Magnificent Thing, the girl in the story went through many different stages until she got her final design.

I think - I question - I design - I create - I struggle - I collaborate - I try - I solve - I invent

Can you fill in the worksheet called Activity 2 The stages of My Design to show the different stages you went through for your design?

Activity 2

The Stages of My Design

I think ... What is the problem I want to solve?	I question Eg What materials will I use? How big will it be?	I design I draw my design
I create/I build Draw/photograph what you have done so far.	I struggle What problem/s have you come across?	I collaborate Who will you ask for help/advice?
I try What did you try to change/do?	I solve Did you solve the problem?	I invent (add a picture or take photo of your model)

Finally

The following is not set work, because you may not have the materials at home or your parents may be working.

Making a robot out of wood and other household bits

<https://frugalfun4boys.com/found-object-robots-a-beginning-woodworking-project-for-kids/>

The above website shows some ideas for making a robot out of bits of wood or things you may have around your house.

Some lovely ideas, if you and a grown up are wanting to build something and we don't get the chance to do woodwork at school using saws, sandpaper and screws or glue. If you have a go, show us your results on Seesaw.