

# Class Tamar

## DT

### Moving Posters



For all of the mechanisms, you have use split pins to keep them together and help them still move.



We worked as teams to follow instructions on making different mechanisms. We looked carefully at the differences and similarities between the different mechanisms made.

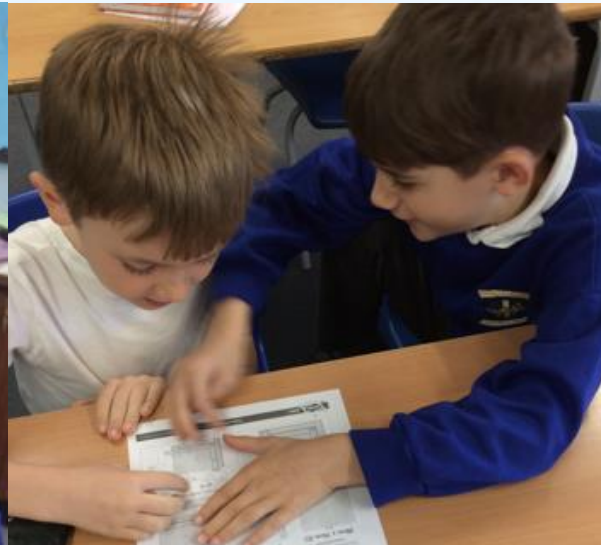




We used our mechanisms that we made to look at the different inputs and outputs. We learnt about the different types of levers and reflected on where we have seen these before.

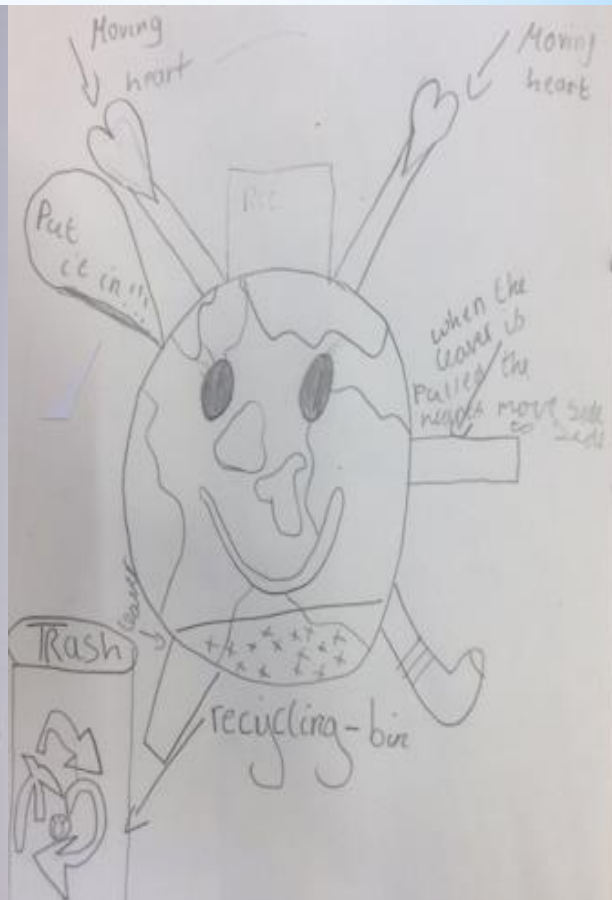
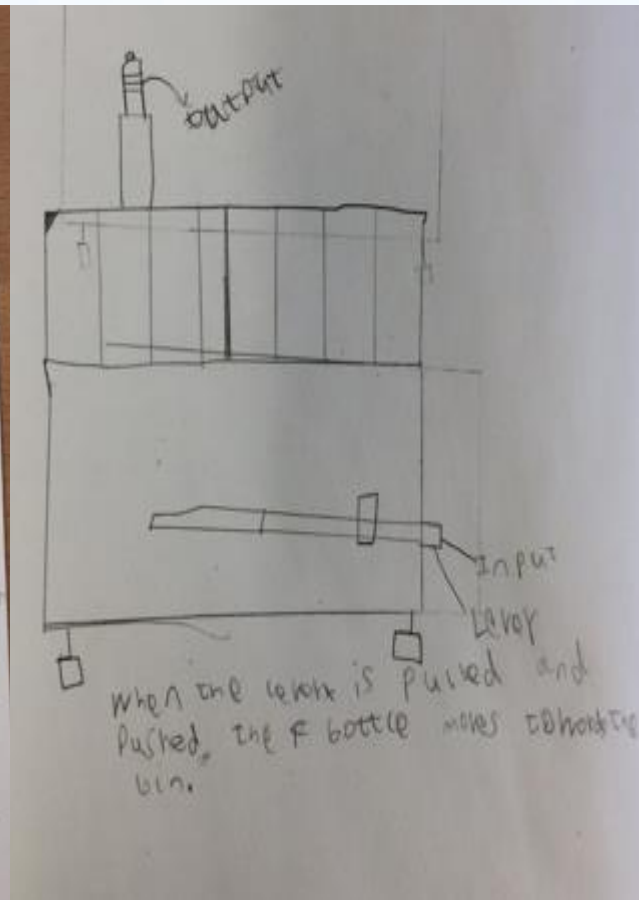
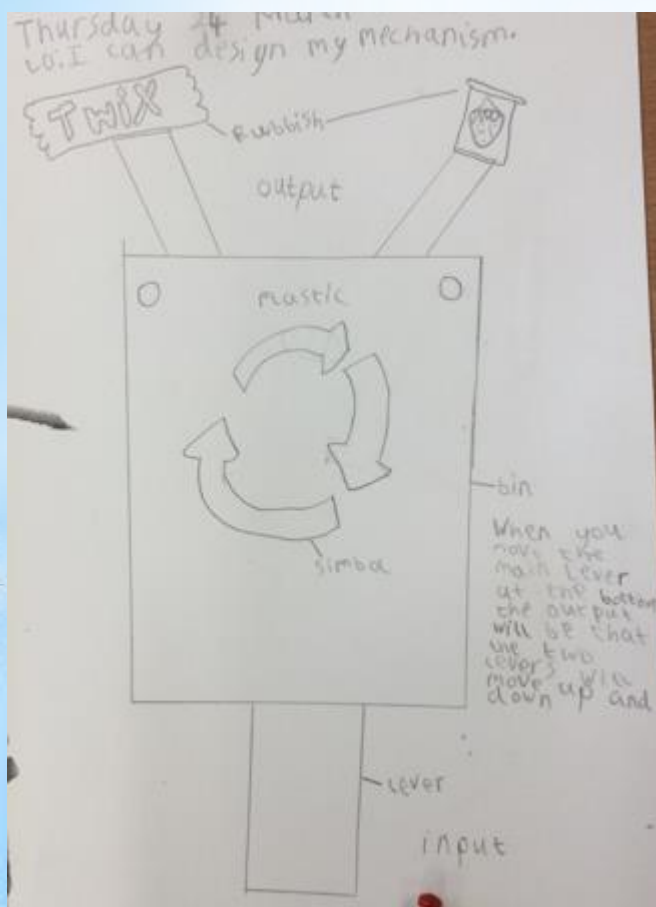


When I pull the lever the output is the hand will move from side to side.

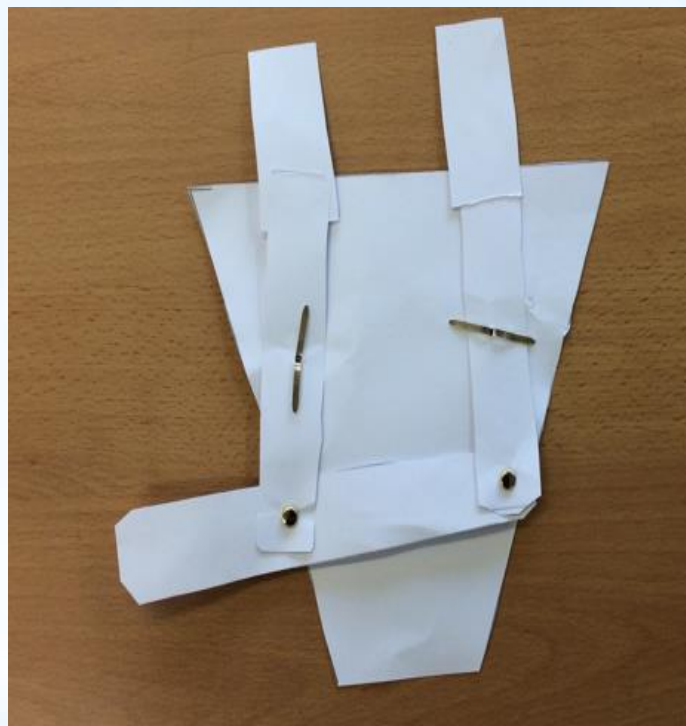


We agreed on a design criteria as a class. We then designed our mechanisms for our posters. We made sure that we understood how our mechanisms would work by explaining the input and the output on our plans.

When I pull my lever to the side, the output will be that the two pieces sticking up on the top will move from side to side.



We made our prototypes. For some of us our mechanisms went to plan however some of us had to change our mechanisms due to the levers not working!



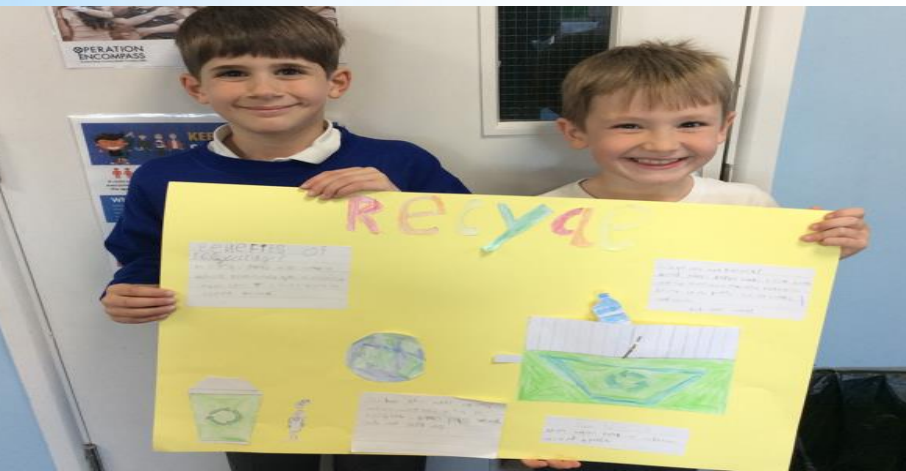
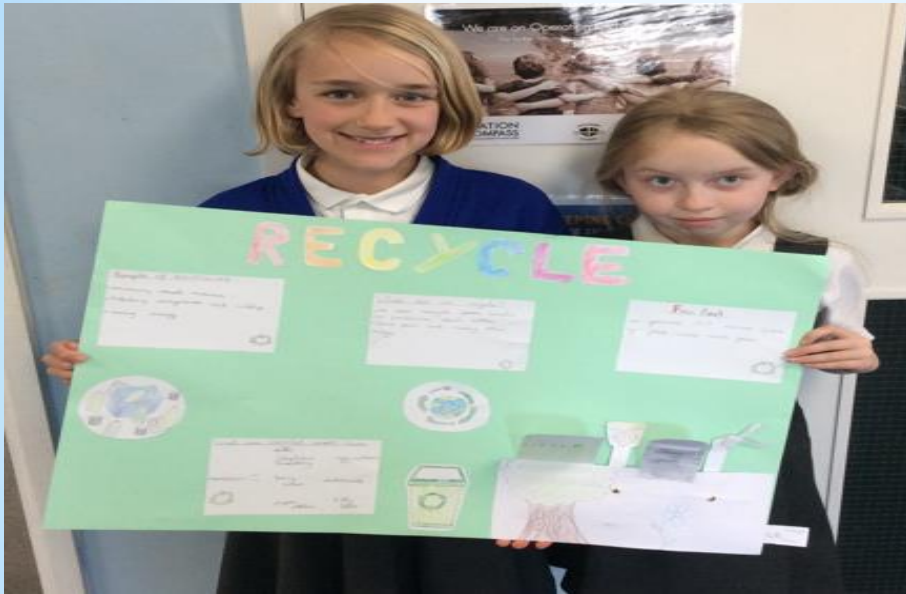
It's a good job we made prototypes as my mechanism didn't work. Now I have one that works for my poster!





We created our recycling posters making sure that we met our design criteria.

I am really proud of my mechanism, it works really well with my poster and really stands out.



When we were finished we evaluated our work. We identified features that worked really well and met the design criteria and what could have been done differently.

**What I have learnt before:**

I can talk about how moving objects work. I know how to follow basic safety rules. I know how to use plans to show how to put their ideas into practice by making moving pictures.

**Forever Facts**

Many mechanisms take one type of input motion, and output it as a different type of motion.

A lever is the simplest type of mechanism. A lever is a stiff bar which moves around a pivot.

Using annotated sketches and prototypes helps to create a final product.

**Skills**

Ensure that plans are realistic and appropriate for the aim.

Use models, pictures and words in designs.

Say why something will be useful.

Apply what they know about mechanisms to create movement when planning and designing.

Choose tools and equipment which are appropriate for the job.

Prepare for work by assembling components together before joining.

Use scoring and folding for precision.

Recognise what has gone well, but suggest further improvements for the finished article.

**Exciting Books****Our Endpoint**

To create a moving poster!

**Subject Specific Vocabulary**

mechanism/  
mechanical  
systems

Something that uses related components which act together to create a movement.

motion

Movement from one place to another.

pivot

To turn on a central point.

rotary motion

Turning round in a circle, e.g. a wheel.

linear motion

Moving in a straight line, e.g. paper trimmer.

reciprocating  
motion

Moving forwards and backwards in a straight line, e.g. cutting with a saw.

oscillating  
motion

Swinging from side to side in an arc, e.g. a pendulum in a clock.

**Culture capital:** Jobs for the future could be: engineer, mechanic, problem solver.