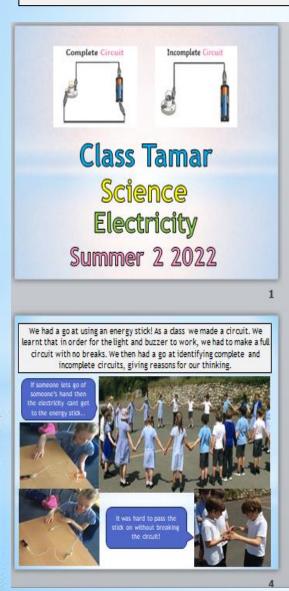
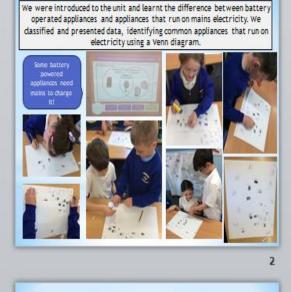
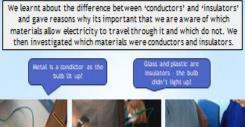


Class Tamar DT Battery operated lights Summer 2 2022

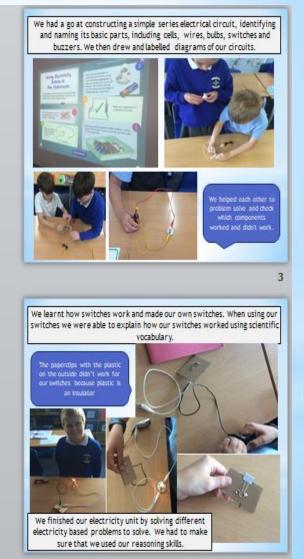
Before we started making our lamps we learnt all about electricity and how to make a bulb light up using a full battery-operated circuit. We also made our own switches for our lamps (please see our science photo book)



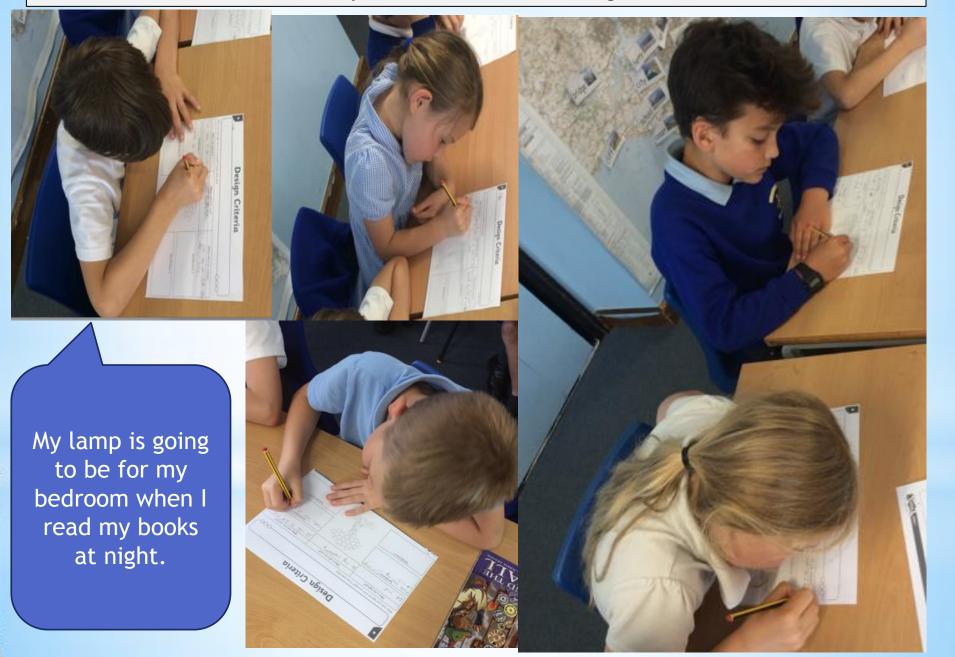




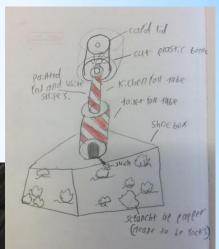




We carefully considered the design criteria.



After we completed our first design we received peer feedback, this then helped us make our final lamp design. It needs to have somewhere where the light can shine through!





I think the lighthouse needs to have a door and some rocks at the bottom to make it look more real. At home, we collected all of the recycled materials we needed. We then began making our lamps in school!





I forgot to include in my plan where I would like the wires to go but have changed it now.

We tested and evaluated our battery operated lights!

I love my lamp! It fits in with my bedroom really well.

I wish I had thought more about how the light will shine through - I should've made more holes.







DT (with links to Science)	FLE Y3/4	Battery operated lights	
What I have learnt before: In DT I have learnt how to generate ideas from own experiences and plan what to do; to follow basic safety rules; and, to recognise what they have done well and what to improve.			
Forever Facts	Exciting	Subjec	t Specific Vocabulary Links to science
In a complete circuit, electricity can flow and the components will work. If there is a break in the circuit that prevents the electricity from flowing, the components will not work.	Books Science in a flash	design	A plan or drawing produced to show the look and function of something before it's made.
Key events and individuals in design and technology have helped shape the world.		evaluate	Evaluating is the process of deciding if you've done something the best way, and looking at what could be improved.
Thomas Edison was a famous American inventor. He is best known for inventing 'domestic' lightbulbs to go in houses, and the electric power system that allows them to work.		electricity	The flow of an electric current through a material, e.g. from a power source through wires to an appliance .
Skills	a seldener a da nor a paras	battery	A device that stores electrical energy as a chemical.
Collect and use information to generate ideas. Understand designs must meet a range of criteria and constraints. Add electricity to make light.	Our Endpoint	circuit	A pathway that electricity can flow around. It is based around wires and a power supply. Examples of components (parts) you can add in to a circuit are bulbs, switches, buzzers and motors.
Combine materials for strength and to improve how the product looks. Develop their designs through their own reflection and	To make and evaluate a battery operated light.	electrical conductor	A conductor of electricity is a material that will allow electricity to flow through it.
the evaluation of others. Culture capital: The jobs it can be used in are: electricians, engineers.		electrical insulator	Materials that are electrical insulators do not allow electricity to flow through them.