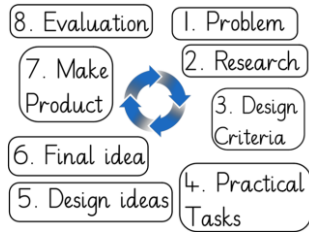


Design process

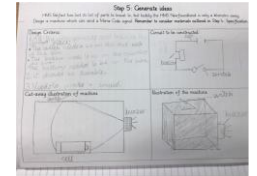
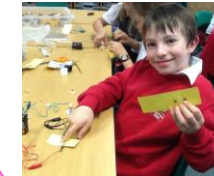
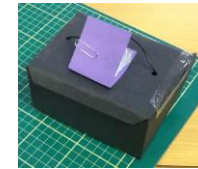


DT – Y4 Electrical Systems

simple circuits and switches

Outcomes

1. Designing and making a Morse Code machine



Vocabulary

Cables, signal, component, break switch, circuit, cell, battery conductor, insulator, buzzer



I found out these things about Samuel Morse and Morse Code.

Links to other subjects

Science: electricity
Learning theme: Conflict

Key knowledge and skills

We can make a plan

We can work with a partner to research and evaluate designs

We can select tools and materials

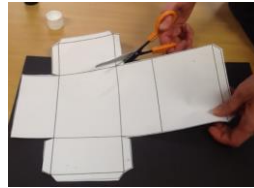
We can measure, cut and glue

We can use simple joining techniques

We can problem solving

We can evaluate our own product against a criteria

We can understand and use electrical systems in our products



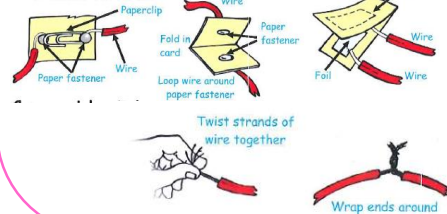
A ---	J ----	S ...	1 ----
B ----	K ---	T --	2 ----
C ----	L ---	U ---	3 ----
D ---	M --	V ----	4 ----
E .	N ..	W ---	5 ----
F ----	O ----	X ----	6 ----
G ----	P ----	Y ----	7 ----
H ----	Q ----	Z ----	8 ----
I ..	R ---	0 ----	9 ----

Health and safety

We can cut card

We can use scissors safely

Handmade switches



Equipment used

Card, batteries, buzzers, foil, insulating tape, blu ta



Equipment used



Links to prior learning and next steps:

EYFS - Design and making areas and construction resources
Y1 - Free standing structures
Y5 - Frame structures