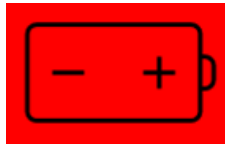


Year: 6
 Term: Autumn 1
 Topic: Electrical systems – Steady hand games



St Dennis Primary Academy

"Everyone matters, everyone succeeds, every moment counts"



Where does this learning link to aspirations for the future?

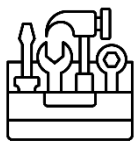
John Spinello was the inventor of 'Operation', the first steady hand game. Maybe you could invent a new game?

In DT we follow this five step process.

Research



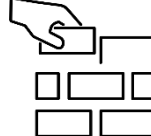
Skills



Design



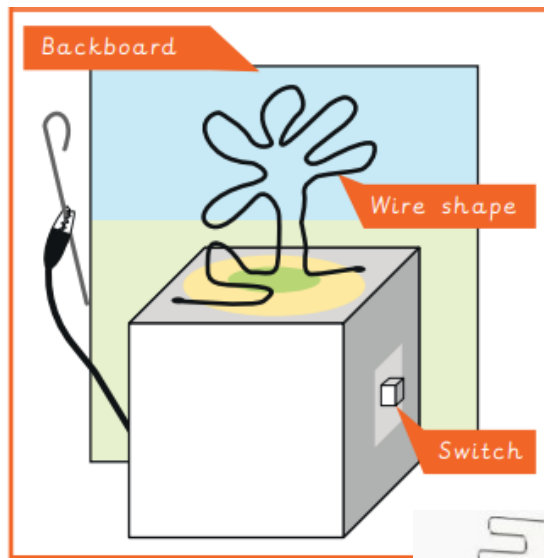
Make



Evaluate



The more complex your wire shape, the harder the steady hand game will be, especially if the bends are close together.



Circuit symbols:

wire



switch open



switch closed



battery



buzzer



bulb



Glossary

backboard A background designed for the steady hand game.

battery A cell or connected group of cells which store electrical energy.

bulb A component which gives light when electricity passes through it.

buzzer A component which make a loud noise as electricity passes through it.

circuit A collection of components that make an electrical system.

conductor A material that allows electricity to flow through it.

function How an object or product operates or works.

insulator A material that does not allow electricity to flow through it.

LED A light emitting diode which lights up as electricity passes through it.

magnetic field He are around a magnet where there is magnetic force.

pliers A metal tool for holding, twisting or cutting wire.

prototype A simple model that lets you test out your idea, how it will look and work.

series A close circuit where the current only follows one path.

circuit

side view drawing An engineering diagram which shows the dimensions (width, depth, length) of the side of a product.

switch A component which opens and closes to turn the circuit on or off.

Top view drawing An engineering diagram which shows the dimensions (width, depth, length) of the top of a product.



Check out continuous line drawings, such as Picasso's single-line animals for inspiration!

