



Aiskew, Leeming Bar
Church of England Primary School

*Rooted in love and growing together
to become lifelong learners*

Year B

KS2

2023 2024



DT - Constructing a castle - Structures

Words	RAG	Definition	Tally
2D shapes		Flat objects with 2-dimensions, such as square, rectangle and circle.	
3D shapes		Solid objects with 3-dimensions, such as cube, oblong and sphere.	
castle		A type of building that used to be built hundreds of years ago to defend land and be a home for Kings and Queens and other very rich people.	
design criteria		A set of rules to help designers focus their ideas and test the success of them.	
evaluation		When you look at the good and bad points about something, then think about how you could improve it.	
façade		The front of a structure.	
feature		A specific part of something.	
flag		A piece of cloth used as a decoration or to represent a country or symbol.	
net		A 2D flat shape, that can become a 3D shape once assembled.	
recyclable		Material or an object that, when no longer wanted or needed, can be made into something else new.	
scoring		Scratching a line with a sharp object into card to make the card easier to bend.	
stable		Object does not easily topple over.	
stiff		It does not bend easily.	
strong		It does not break easily.	
structure		Something which stands, usually on its own.	
tab		The small tabs on the net template that are bent and glued down to hold the shape together.	
weak		It breaks easily.	



DT - Adapting a recipe - Cooking & Nutrition

Words	RAG	Definition	Tally
adapt		To change something to make it suitable for a new purpose.	
budget		A plan of how to spend money.	
buttery		A smooth and soft biscuit that resembles the taste of butter.	
combine		Mixing two or more ingredients together.	
compare		To look for similarities and differences between things.	
construct		To build something.	
cream		Mixing butter and sugar together.	
crunchy		A biscuit with a firm texture that makes a noise when eaten or snapped.	
cuboid		A 3D shape with six rectangular faces.	
cut		To split something or make it smaller using a sharp tool.	
design		A plan for a recipe or product.	
evaluate		To decide how good something is.	
fold		To bend something for a purpose.	
hygiene		Keeping things clean.	
ingredients		The food used in a recipe.	
market research		Gathering information from the target audience.	
opinion		A thought or belief about something.	
sieve		A piece of kitchen equipment often used to remove lumps.	
sift		The process of removing lumps or adding air.	
target audience		Groups of people that a product is made for.	
taste		The flavour of a food.	
texture		The feel of a food when eaten.	
unique		To be special or different than other things.	
wooden spoon		A piece of kitchen equipment for stirring and mixing.	



DT - Doodlers - Electricity

Words	RAG	Definition	Tally
circuit		A collection of components that make an electrical system.	
circuit component		One of several parts that complete a circuit (e.g. bulb).	
configuration		How different parts are put together to form an object.	
current		The flow of electricity.	
develop		Continue to work on something to make progress or improve it.	
DIY		The acronym means 'do it yourself' and represents various activities that someone chooses to do themselves at home rather than through a service or professional.	
hobby		An activity that someone develops a passion for and takes pleasure from (e.g. sports, crafts).	
investigate		Research something by looking at it in greater detail.	
motor		Converts electrical energy into rotational movement causing the motor's axle to spin.	
motorised		An object that uses a motor to function.	
problem-solve		Develop and test solutions to an issue.	
product analysis		To look at an object and evaluate it based on certain criteria (e.g. function).	
series circuit		They only have one path for the electrical current to flow.	
stable		An object that does not easily topple over.	
target user		A particular person at whom the product is aimed.	



DT - Steady hand games - Electricity

Words	RAG	Definition	Tally
assemble		To make something by joining separate parts together.	
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 makes a loud noise as electricity passes through.	
circuit		A collection of components that make an electrical system.	
conductor		A material that allows electricity to flow through it. E.g. metal	
copper		A metal material that is one of the best conductors of heat and electricity and is often used to make wires and pipes.	
design criteria		A set of instructions or requirements for a project.	
electricity		An energy that is usually invisible which can be made or stored and used to make objects work (e.g. to move things or heat them).	
fine motor skills		Our ability to use the smaller muscles in our hands and wrists.	
fit for purpose		A product or service that does what it is supposed to.	
form		The shape and appearance of an object.	
function		The purpose of an object or how the product works.	
gross motor skills		Our ability to use the larger muscles in our body (e.g. legs).	
insulator		A material that does not allow electricity to flow through it. E.g. plastic.	
LED		A light emitting diode which lights up as electricity passes through.	
magnetic field		The area around a magnet where there is a magnetic field.	
net		A 2D flat shape, that can become a 3D shape once assembled.	
pliers		A metal tool used for holding, twisting or cutting wire.	
prototype		A simple model that lets you test out your idea, how it will look and work.	
research		A detailed study of a topic to discover new information.	
series circuit		A closed circuit where the current only follows one path.	
side-view drawing		An engineering diagram which shows the dimensions (width, depth and length) of the side (left or right) of a product.	
stable		An object that does not easily topple over.	
switch		A component which opens and closes to turn the circuit on or off.	
tabs		A small piece of paper or material that is attached to the edge of another part.	
test		To find out whether something works as it should.	
top-view drawing		An engineering diagram which shows the dimensions (width, depth and length) of the top of a product.	



Aiskew, Leeming Bar
Church of England Primary School

*Rooted in love and growing together
to become lifelong learners*

user			Someone who uses a product or service.	
------	--	--	--	--



DT - Monitoring devices - Digital World

Words	RAG	Definition	Tally
alert		A visual or audio message that warns you or provides information.	
ambient		In the surrounding area.	
Boolean		A form of data, which consists of (true) 1s and (false) 0s values.	
decompose		To decay and break down into smaller parts.	
design brief		A written plan that identifies a problem that needs to be solved.	
design criteria		A set of instructions or requirements for a project.	
development		The changes in something that make it more advanced or successful.	
device		Equipment created for a certain purpose or job.	
duplicate		To make an exact copy of something.	
durable		Lasts a long time with prolonged use without deteriorating very easily.	
electronic		An electrical device that has some decision-making capabilities, which is usually powered by a microprocessor.	
historical		Used to describe things from the past.	
inventor		Someone who designs or creates something that did not exist before.	
lightweight		Weighing very little.	
man-made		An artificial rather than a natural material.	
microplastics		Very small pieces of plastic that are harmful to the environment.	
model		A three-dimensional model of a product, person or structure.	
molecules		The smallest unit of a chemical substance.	
monitor		To observe and record something over time.	
monitoring device		An electronic device that observes and records something over time using data retrieved from one or more sensors.	
moulded		Can be made into any shape.	
opaque		Prevents light from travelling through it so not transparent or translucent.	
plastic		An artificial material which can be shaped into many forms with many uses.	
plastic pollution		Discarded plastic is harmful to the environment.	
programming comment		A note to let others understand the function of the code.	
programming loop		A piece of code that repeats.	
reformed		To be changed into another shape or purpose.	



research			Using different media (e.g. newspapers, books, online searches) to collect information about a subject.	
sensor			A tool or device designed to monitor, detect and respond to changes for a specific purpose.	
sustainability			Causes little or no damage to the environment.	
synthetic			Something artificial that is made with substances that do not occur naturally.	
thermometer			A device that monitors and indicates the current temperature of an area, object or living thing.	
thermoscope			A device used before thermometers that uses oil and water to measure the temperature of a room.	
transparent			A material you can see through.	
value			A number or symbol that represents an amount.	
variable			A number or text that can change each time the program is run and often in combination with selection to change the end result of the program.	
versatile			Can be used in a number of ways, or has a variety of functions.	
vivarium			A container with a glass front which houses small animals, often reptiles.	
water-resistant			Repels water from entering or absorbing something.	
workplane (CAD)			A virtual mat to place and manipulate objects in CAD, to build 3D models.	



DT - Automata toys - Mechanisms

Words	RAG	Definition	Tally
accurate		Neat, correct shape, size and pattern with no mistakes.	
assembly diagram		An exploded view diagram of an object that shows you how to construct an object or the order of assembly of various parts.	
automata		Sometimes known as mechanical toys or kinetic art, and they use hand-powered mechanisms to create movement in a scene of characters	
bench hook		A tool which hooks onto the edge of the workbench and is used to hold wood still when sawing.	
cam		A rotating or sliding piece in a mechanism that changes a rotary motion to a linear motion.	
cam profile		The shape of the cam which determines the rise and fall (movement) of the follower.	
clamp		A tool for holding objects together, such as when you are waiting for glue to dry on something that you have glued together.	
client		A person or company who receives a service from a professional (such as a designer).	
communication		Sharing information, ideas or feelings by speaking or writing.	
component		One of several parts of which something is made	
cross-sectional diagram		Show the inner workings and components of products.	
customer		A person who buys goods or services from a shop or business.	
cutting list		An outline drawn true to size on paper, which shows the size and how many of each piece which you need to make for the project.	
design brief		A written plan that identifies a problem that needs to be solved.	
design criteria		A set of instructions or requirements for a project.	
designer		Someone who draws and plans how something will be made.	
dowel		Wood in the shape of a cylinder. Dowels come in all different sizes and thicknesses.	
drill bits		The cutting tools that go in a drill to make different size holes.	
evaluation		When you look at the good and bad points about something and think about how to improve it.	
exploded diagram		A diagram which shows all of the internal and external parts of a product.	
finish		To complete your product with a high-quality appearance.	
flat-pack		Something sold in pieces with assembly instructions (inside a flat box) to be built elsewhere.	
follower		The post which traces the shape of the cam, rising and falling in a linear or reciprocating motion.	
follower base		The horizontal base stuck to the bottom of the follower.	



follower topper		A picture attached to the top of the follower which moves up and down.	
frame		The rectangular structure which holds the Automata together.	
function		How an object or product operates or works.	
hand drill		A small portable drilling machine for making holes which is operated by hand.	
housing		A rigid casing that encloses and protects a mechanism.	
inner workings		The parts that make something work, that enclosed inside the object and are hidden from view.	
jelutong		A type of softwood, it is lightweight, easy to cut and shape.	
linkage		A set of bars linked together to form a mechanism.	
mark out		To measure and mark where a piece of material needs to be cut or shaped.	
measure		To find out the size of something.	
mechanism		The parts of an object that move together as part of a machine.	
set square		A right-angle triangular plate, wood or metal tool used for drawing lines at 90°, 45°, 60° or 30°.	
sandpaper		Strong paper with sand on one side to smooth or polish woodwork	
storefront		The part of a shop that faces the high street, path or road.	
tenon saw		A saw with a flat blade which is used for cutting wood in straight lines or angles.	
verbal		Spoken rather than written.	
visual		A picture, illustration or photograph used to explain or show how something will look.	
woodwork		The wooden parts of something (e.g. a house or furniture).	