



D&T Curriculum

KS1 Knowledge Organisers

Knowledge Organiser - C1 – Year R/1**D&T Unit:** Levers - Moving Pictures**Year:** A1**Term:** Autumn

Learning Objectives - Knowledge	Key Driver
To know a selection of stories that use flaps and moving pictures.	C
To know how to make a simple slider.	C
To know how to use joining materials (glue or sellotape) to connect materials together.	C
To know how to use simple tools (scissors) to make a slider.	C
To know the audience and materials needed for a final product.	C
To know how to make a simple slider for a card.	C
To know how to evaluate a product.	C

Key Vocabulary	
Word	Meaning
slider	something that slides.
joining	to put, bring, or fasten together.
material	anything used for building or making something else.
scissors	a tool used for cutting. Scissors are made up of two blades that are joined so that their edges may be opened and closed.
connect	to join together; link.
audience	a group of people gathered to see or hear something.
moving	that changes place or position.
product	something made by means of either human work or that of a machine.
evaluate	to judge the level or value of.

Equipment Required
books with levers/sliders scissors glue / sellotape card colouring pencils

Useful Websites or Resources
https://www.youtube.com/watch?v=LWx4IUirvy0 https://www.youtube.com/watch?v=I1qgaEdwSyY

Knowledge Organiser - C2 – Year 1/2**D&T Unit:** Levers - Moving Pictures**Year:** A1**Term:** Autumn

Learning Objectives - Knowledge	Key Driver
To know and compare a selection of stories that use flaps and moving pictures	C
To know how a slider works by taking them apart.	C
To know what materials and equipment is needed to make a simple slider.	C
To know how to design a product using our product research.	C
To know the audience and materials needed for a final product.	C
To know how to make a simple slider for a card.	C
To know how to evaluate a product.	C

Key Vocabulary	
slider	something that slides.
joining	to put, bring, or fasten together
material	anything used for building or making something else.
scissors	a tool used for cutting. Scissors are made up of two blades that are joined so that their edges may be opened and closed.
connect	to join together; link.
audience	a group of people gathered to see or hear something.
moving	that changes place or position.
product	something made by means of either human work or that of a machine
evaluate	to judge the level or value of.

Equipment Required
books with flaps/levers/sliders scissors glue / sellotape card colouring pencils

Useful Websites or Resources
https://www.youtube.com/watch?v=LWx4IUirvy0 https://www.youtube.com/watch?v=I1qgaEdwSyY

Knowledge Organiser - C1 – Year R/1**D&T Unit:** Axles, Pulleys & Gears - Tractors**Year:** A1**Term:** Spring

Learning Objectives - Knowledge	Key Driver
To know and explore a range of toy vehicles and tractors and make simple drawings.	C
To know how to take simple vehicles / tractors apart and talk about the different parts and how they work	C
To know how to use simple construction materials to make a tractor	C
To know how to plan and design a simple tractor	C
To know how to assemble, join and combine in order to make a simple tractor	C
To know how to attach a simple axle and wheels to tractor	C
To know how to complete the product	C
To know how to evaluate product against design	C

Key Vocabulary	
Word	Meaning
construction	something that is constructed; a structure
durability	the ability to last over time
finish	to bring to a end or completion
design	a plan or drawing produced to show the look of a object
make	putting parts together
evaluate	to judge or determine the quality of the product
product	something made by means of either human work or that of a machine
strength	how strong the vehicle is

Equipment Required
cardboard boxes, pencil, ruler, PVA glue, toy vehicles, toy tractors, dowelling, glue gun, scissors wooden, plastic and card wheels in various sizes, masking tape.

Useful Websites or Resources
https://nustem.uk/activity/levers-pulleys-and-gears-key-stages-1-2/ LCP D&T File

Knowledge Organiser C2 – Year 1/2**D&T Unit:** Axles, Pulleys & Gears - Tractors**Year:** A1**Term:** Spring

Learning Objectives - Knowledge	Key Driver
To know how to identify a wheel, axle and chassis on a range of toy vehicles and pictures of real vehicles.	C
To know how to make a simple model of a car chassis with axles and wheels.	C
To know how to evaluate materials to see if they are suitable for a purpose (e.g. materials suitable for making wheels and axles on a toy vehicle).	C
To know how to join simple construction materials to make a model tractor.	C
To know how to cut materials to size using a range of equipment safely (scissors, hacksaw) to create a model.	C
To know how to evaluate a product design.	C

Key Vocabulary	
Word	Meaning
axel	a jump in skating from the forward outside edge of one skate to the backward outside edge of the other, with one (or more) and a half turns in the air
pulley	a wheel with a grooved rim around which a cord passes, which acts to change the direction of a force applied to the cord and is used to raise heavy weights.
chassis	the base frame of a car, carriage, or other wheeled vehicle.
design	a plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.
evaluate	form an idea of the amount, number, or value of; assess.
materials	the matter from which a thing is or can be made.
suitable	right or appropriate for a particular person, purpose, or situation.
product	an article or substance that is manufactured or refined for sale.

Equipment Required
cardboard boxes, pencil, ruler, PVA glue, toy vehicles, toy tractors, dowelling, glue gun, scissors wooden, plastic and card wheels in various sizes, masking tape.

Useful Websites or Resources
https://nustem.uk/activity/levers-pulleys-and-gears-key-stages-1-2/ LCP D&T File

Knowledge Organiser - C1 – Year R/1**D&T Unit:** Structures - HMS Beagle**Year:** A1**Term:** Summer*Note: This unit has had to be adapted due to Covid-19 restrictions.*

Learning Objectives - Knowledge	Key Driver
To know the features of a boat ramp and its purpose.	C
To know how to use construction kits and pictures to make a boat ramp.	C
To know what materials and equipment is needed to construct a model ramp.	C
To know how to make simple 2D structures using triangular card joints.	C
To know how to safely use equipment (hacksaw) to cut wood to size.	C
To know how to apply simple finishes to complete the product.	C

Key Vocabulary	
Word	Meaning
equipment	the necessary items for a particular purpose.
ramp	a sloping surface joining two different levels
structure	a building or other object constructed from several parts
design	a plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.
joints	a point at which parts of an artificial structure are joined.
durability	the ability to withstand wear, pressure, or damage.
aesthetics	giving or designed to give pleasure through beauty
material	the matter from which a thing is or can be made.
suitability	the quality of being right or appropriate for a particular person, purpose, or situation.
safely	in a way that gives protection from danger or risk
joining	link; connect.

Equipment Required
Glue gun Scissors Duplo Mobilo Triangular card joints Corrugated plastic sheets Hacksaw and bench Square dowel Paints for decoration

Useful Websites or Resources
http://primary.cleapss.org.uk/

Knowledge Organiser - C2 – Year 1/2**D&T Unit:** Structures - HMS Beagle**Year:** A1**Term:** Summer*Note: This unit has had to be adapted due to Covid-19 restrictions.*

Learning Objectives - Knowledge	Key Driver
To know features of a boat ramp, what they're made from and why.	C
To know how to use existing knowledge and pictures to design a boat ramp.	C
To know what materials and equipment are needed to make a boat ramp.	C
To know how to use triangular card joints to provide a strong joint on a structure.	C
To know how to safely use equipment (hacksaw) to cut wood to size after using a straight edge to mark lines for cutting.	C
To know how to apply simple finishes (glue, paint) to improve the finish of the product.	C

Key Vocabulary	
Word	Meaning
design	a plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.
structure	a building or other object constructed from several parts
material	the matter from which a thing is or can be made.
equipment	the necessary items for a particular purpose.
joint	a point at which parts of an artificial structure are joined.
safely	in a way that gives protection from danger or risk
product	an article or substance that is manufactured or refined for sale
finish	complete the manufacture or decoration of (an article) by giving it an attractive surface appearance.
joining	link; connect.
aesthetics	giving or designed to give pleasure through beauty
suitability	the quality of being right or appropriate for a particular person, purpose, or situation.
durability	the ability to withstand wear, pressure, or damage.

Equipment Required
Triangular card joints PVA Glue Hot glue gun Square Dowel Hacksaw and bench Cardboard boxes Corrugated plastic sheets. Paints for decoration.

Useful Websites or Resources
http://primary.cleapss.org.uk/