



*Summerseat Methodist Primary School*  
***Steps in Learning, Skills for Life***

*Expectations for Lower Key Stage Two*  
*(Cycle A, Year Three)*

**What knowledge and skills will you gain on your learning journey this year?**

## Summerseat Methodist Primary School's Steps in Learning

This booklet provides an overview of the topics taught in the year group for all the subjects and also outlines the end of year exceptions for children in our school for maths and English. It also contains the knowledge organisers for maths and English which we use with the children in school. Science, geography and history knowledge organisers for the autumn term are also included for information and subsequent terms will come home at the start of each topic to let you know the key knowledge children will gain during the topic.

At the back of the booklet are our learning to learn skills which are taught progressively and explicitly in all year groups to ensure our pupils leave the school as 'well rounded' individuals.

This is a 'snapshot' of our curriculum and more information on skills progression for each curriculum area can be found in our subject 'Steps in Learning' which are our key progression documents.

Class Beech topics—Cycle A	
Autumn 1	Rainforests
Autumn 2	Deserts
Spring 1	Stone Age, Iron Age, Bronze Age
Spring 2	
Summer 1	Ancient Civilisations
Summer 2	

If you have any queries regarding the content of this booklet or want support in knowing how best to help your child please talk to your child's class teacher.

***\*For further detail, please see the Subject Steps in Learning which are our key progression framework. Content in this booklet is summarised.***



The school vision, motto and values have directed our curriculum intent and design and are interwoven within in.

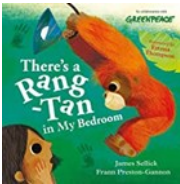
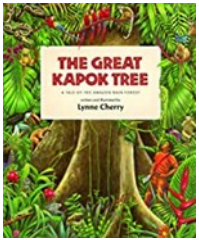
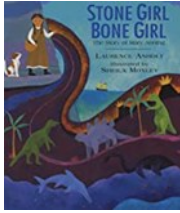
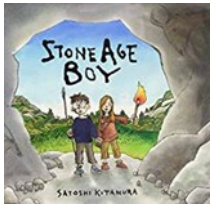
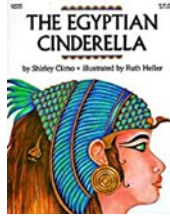
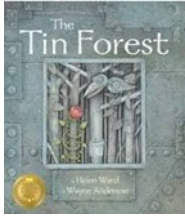
***"I have come so that they may have life and have it to the full."*** John

10:10

**Believe. Achieve. Shine.**



**Summerseat Methodist Primary School – Steps in Learning  
Class Three – Cycle A**

	Autumn1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Topic</b>	Rainforests	Deserts	Stone age, Iron age, bronze age		Ancient civilisations	
<b>Visits and Visitors</b>		Chester Zoo	Anderton centre		Museum visit	
<b>Key Texts</b>						
<b>Additional Stimulus</b>	Little People, Big Dreams - Attenborough	The Grinch who stole Christmas – Seuss	Fossil Girl - Brighton	How to wash a woolly mammoth	You wouldn't want to be an Egyptian Mummy	
<b>Writing Outcomes</b>	<p><b>Instructions/rules</b> for living in the bedroom</p> <p><b>Information page</b> about orang-utans</p> <p><b>Angry speech bubble</b> in role as the little girl</p> <p><b>Letter of complaint</b> Short</p> <p><b>Biography</b></p>	<p><b>Setting description</b> New page for The Great Kapok Tree incl. persuasive speech in role</p> <p><b>Letter of complaint</b> re: deforestation</p>	<p><b>Diary</b> - Mary Anning</p> <p><b>Setting Description</b></p> <p><b>Recount</b></p>	<p><b>Dialogue</b> – between two characters</p> <p><b>Narrative</b> – own versions of the story</p> <p><b>Instructions</b></p> <p><b>Non-chronological report</b> – stone age to iron age</p>	<p><b>Narrative</b></p> <p><b>Setting description</b></p> <p><b>Mystery story</b></p> <p><b>Dialogue</b> to convey character and move the action on</p> <p><b>Explanation</b> – Mummification</p> <p><b>Diary</b> – Howard Carter</p>	<p>Writing in role</p> <p>Diary Entry</p> <p>Descriptive Writing</p> <p>Persuasion</p>
<b>Mathematics</b>	Number: Place value Number: Addition and Subtraction	Number: Addition and Subtraction Number: Multiplication & Division	Number: Multiplication & Division Measurement: Length, perimeter, area Number: Fractions	Number: Fractions Measurement: Mass and Capacity	Number: Decimals (including money) Measurement: Time	Statistics Geometry: Properties of shape
<b>Science</b>	<u>Physics</u> Light	<u>Physics</u> Sound  <u>Sustainability</u> Deforestation	<u>Biology</u> Digestive System	<u>Biology</u> Food Chains  <u>Sustainability</u> Food Waste	<u>Biology</u> Plants A	<u>Physics</u> Forces Magnets <u>Biology</u> Plants B <u>Sustainability</u> Biodiversity

**Summarseat Methodist Primary School – Steps in Learning  
Class Three – Cycle A**

	Autumn1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>History</b>			Stone Age, Bronze Age and Iron Age (Changes in Britain from Stone Age to Iron Age)		Ancient Civilisations (The achievements of the earliest civilisations – an overview of when and where the first civilisations appeared and a depth study of one.)	
<b>Geography</b>	Rainforests	Deserts				
<b>Art</b>			<u>Collage</u> Jesse Treece		<u>3D Art</u> Ancient civilizations Sarcophagus (Clay & hinge)	<u>Printing</u> <u>William Morris</u>
<b>Design Technology</b>	<b>Mechanisms</b> <i>Levers, pulleys, winding mechanisms, pneumatics</i> <b>Moving Animals</b>	<b>Structures</b> <i>Stiffening, reinforcing</i>  <b>Frames and axles</b> <i>Engineer: <u>Stephenson's</u> (Robert &amp; George)</i>		<b>Food</b> <i>Healthy and varied diet</i> <b>Making bread &amp; soup</b>  <i>Chef: Jamie Oliver</i>		
<b>Computing</b>	Email  <b>Online Reputation/Self-image &amp; identity</b>	Unpacking hardware and software.  Route Planners  <b>Managing Online Information</b>	Effective searching  <b>Privacy &amp; Security/Copyright &amp; Ownership</b>	Coding  <b>Online Relationships &amp; Bullying</b>	Presentations  <b>Health, Wellbeing &amp; Lifestyle</b>	Spreadsheets  <b>Online safety review</b>
<b>Music</b>	<a href="#">Mama Mia (Musicals)</a>	Songs for Christmas performances	Western Classic to 1940: Classical Period : Focus on Beethoven 'Symphony no. 5'  Western Tradition & Film post 1940: Jai Ho from Slumdog Millionaire	Western Classic to 1940: Medieval & Renaissance: William Byrd (Recorder popular – lead into recorder unit) <a href="#">Recorder Course (Steps 1-10)</a>	Western Classic to 1940: Medieval & Renaissance: William Byrd (Recorder popular – lead into recorder unit) <a href="#">Recorder Course (Steps 1-10)</a>	<a href="#">Let your spirit fly (R&amp;B)</a> <a href="#">Stop! (rap)</a>
<b>RE</b>	2a.1: CREATION/ FALL: What do Christians learn from the creation story?	How do festivals and family life show what matters to Jewish people?	2a.2 PEOPLE OF GOD: What is it like to follow God? Methodist Unit: Warm hearts: what does it feel like to experience God's presence?	How do festivals and worship show what matters to a Muslim?	2a.4 GOSPEL: What kind of world did Jesus want?	How and why do religious and non-religious people try to make the world a better place?
<b>PSHE</b>	Being me in my world	Celebrating Difference	Dreams and Goals	Healthy Me	Relationships	Changing Me!

## Reading

### Oracy & Reading

Participates in book discussions, asking questions.

Reads fluently with expression, flow and pace.

Retells a wider range of stories, fairy and traditional tales in different formats.

Prepares poems and playscripts to read aloud and perform.

### Word Reading & Decoding

Reads sections of text quickly.

Uses prefixes and suffixes to construct meaning.

### Language in Context: V

Checks and corrects meaning while reading.

Discusses and links new word meanings to prior knowledge.

Uses context or dictionary to clarify new vocabulary.

Collects words from reading for own writing.

### Comprehension – Retrieval: R

Understands main points with reference to the text.

Begins to skim for overview and scan for detail.

Highlights key words to answer who, where, when, what, how and why questions.

Begins to read silently and discuss content.

### Comprehension – Sequencing & Summarising: S

Sequences events and explains links.

Summarises main points of a section.

Identifies main ideas across paragraphs.

### Comprehension – Inference: I / P

Discusses characters' actions, feelings and motives with evidence.

Makes inferences and predictions based on text and similar books.

Explains the writer's purpose.

### Comprehension – Choice of Language: WP

Identifies how vocabulary affects meaning.

Explains how language and sentence types create mood or suspense.

### Comprehension – Themes & Conventions: E / C

Identifies text types and uses layout features to find information.

Makes connections between books by the same author.

Recognises historical, social or cultural features.

Identifies forms of poetry.

Evaluates texts by type.



## A Year Three Child English

### Speaking

- Sequence and communicate ideas in an organised and logical way in complete sentences as required
- Vary the amount of detail and choice of vocabulary dependent on the purpose and audience
- Participate fully in paired and group discussions
- Show understanding of the main points in a discussion
- Start to show awareness of how and when Standard English is used
- Retell a story using narrative language and added relevant detail
- Show they have listened carefully through making relevant comments
- Formally present ideas or information to an audience
- Recognise that meaning can be expressed in different ways dependent on the context
- Perform poems from memory adapting expression and tone as appropriate

### Handwriting

- Develops a joined handwriting style.
- Writes neatly and legibly, leaving appropriate spaces.
- Maintains consistent size and fluency.
- Recognises when letters are best left unjoined.

## Writing

### Oracy for Writing

Generates and develops ideas orally in increasing detail.

Discusses features of similar writing and applies them.

Reads own writing aloud with clear intonation.

### Composition: Sentences

Uses present perfect tense alongside past tense.

Sustains tense accurately across different text types.

Maintains variety with simple, compound and some complex sentences.

Uses pronouns effectively for cohesion.

### Punctuation

Uses all taught KS2 punctuation accurately and effectively. (. ! ? ' ,)

Uses inverted commas and punctuation for direct speech.

Uses apostrophes for contractions and singular possession accurately.

### Composition: Context, Audience, Purpose

Plans and records cohesive texts using planning tools.

Maintains cohesion when writing from a plan.

Adds detail to engage the reader.

Shows developing awareness of audience.

### Composition: Narrative

Writes complete narratives with clear plot development.

Creates engaging openings with character/setting detail.

Begins to use paragraphing independently for shifts in time, place or subject.

Writes resolutions with more detail for closure.

### Composition: Non-narrative

Identifies key features of different text types.

Writes with clear introduction, organisation of points, and conclusion.

Organises paragraphs around themes independently.

Combines devices and paragraphing for cohesion.

### Composition: Editing

Suggests vocabulary and grammar changes for clarity.

Uses success criteria to check writing.

Gives constructive feedback to peers.

### Spelling

Spells KS1 common exception words and taught patterns accurately.

Uses LKS2 spelling patterns, prefixes and suffixes with growing accuracy.

Spells homophones and near homophones correctly.

Spells words often misspelt (Appendix 1 NC).

Writes simple dictated sentences using taught words and punctuation.

Punctuation

Don't forget:

. ! ? , '

**Inverted commas:** To punctuate direct speech.

The teacher asked, "Where is your homework?"

"Where is your homework?" the teacher asked.

- Capital letter to start speech
- Inverted commas around spoken words
- Commas to separate the spoken word
- Punctuation before closing the inverted commas

**Apostrophes:**

For contractions to show letters are omitted:

Don't (do not) She'll (She will)

For singular possession, add apostrophe 's'.

The girl's bike. The dog's lead

For plural possession, if the noun ends with 's', just add the apostrophe

The girls' bike. The babies' ball.

If the noun is plural and does not end with s, we add 's to the end.

Children's ball



P  
A  
R  
A  
G  
R  
A  
P  
H  
S

Word Classes

**Noun:** person, place or thing

**Proper Noun:** names of specific people, places or things.

Always need a capital letter

**Verb:** action word

**Adjective:** describes a noun

**Preposition:** where or when something is (position)

**Adverb:** describes the verb or adjective.

**Pronoun:** Takes the place of the noun

**Prefixes:** letters added to the front of a word to change the meaning

**Suffixes:** letters added to the end of a word to change the meaning



Grammar Knowledge Organiser



Word - Articles

**A** - use for nouns, adverbs or adjectives which begin with consonant sounds.

A teacher      A unicorn      A really beautiful flower

**An** - use for nouns, adverbs or adjectives which begin with vowel sounds.

An invitation      An umbrella      An extremely cold day

A  
E  
I  
O  
U

Sentence - Conjunctions & Adverbs

Subordinate Conjunctions



Joins a subordinate clause and a main clause.

Coordinating Conjunctions



Terminology

Preposition, conjunction, word family, prefix, clause, subordinate clause, direct speech, consonant, consonant letter, vowel, vowel letter, paragraph, inverted commas (or 'speech marks')

**PREPOSITION**

A preposition links nouns, pronouns and phrases within a sentence.

- about
- beside
- over
- during
- in
- from
- across





# Spelling Knowledge Organiser

## 3 & 4

**-ful**  
full of

**-less**  
without

**-ment**  
action

**-ness**  
a state or quality

**-ly**  
in a certain manner

**-ation**  
an action or process

**-ous**  
full of

accident	century	experiment	interest	particular	remember
accidentally	certain	extreme	island	peculiar	sentence
actual	circle	famous	knowledge	perhaps	separate
actually	complete	favourite	learn	popular	special
address	consider	February	length	position	straight
answer	continue	forward(s)	library	possess	strange
appear	decide	fruit	material	possession	strength
arrive	describe	grammar	medicine	possible	suppose
believe	different	group	mention	potatoes	surprise
bicycle	difficult	guard	minute	pressure	therefore
breath	disappear	guide	natural	probably	though
breathe	early	heard	naughty	promise	(although)
build	earth	heart	notice	purpose	thought
busy	eight	height	occasion	quarter	through
business	eighth	history	occasionally	question	various
calendar	enough	imagine	often	recent	weight
caught	exercise	increase	opposite	regular	woman
centre	experience	important	ordinary	reign	women

Prefixes	
Most prefixes can be added to the beginning of root words without any changes in spelling, <b>except in-</b>	
Suffix	Meaning
<b>un- / dis- / mis-</b>	Negative meanings
<b>in-</b>	Can mean not or 'in' / 'into'
<b>re-</b>	Means 'again' or 'back'
<b>sub-</b>	Means 'under'
<b>inter-</b>	Means 'between' or 'among'
<b>super-</b>	Means 'above'
<b>anti-</b>	means 'against'
<b>auto-</b>	means 'self' or 'own'

Before a root word starting with l, in- becomes il  
**illegal, illegible**

**in-**

Before a root word starting with m or p, in- becomes im  
**immature, immortal**

Before a root word starting with r, in- becomes ir-  
**irregular, irrelevant**

## Homophones

**Two**

Is a number also represented as 2.

The fox has two ears.

**Too**

Can mean 'in excess' or 'also'.

I ate too much!

**To**

Is used for everything else!

I love to swim!

**their**  
**there**  
**they're**

**AFFECT**    **EFFECT**

Affect vs. Effect

**hear**

**here**

**Which**

Is an interrogative pronoun used to identify a person or thing.

Which dragon is yours?

**Witch**

Is a female sorcerer or magician.

write it right inc.

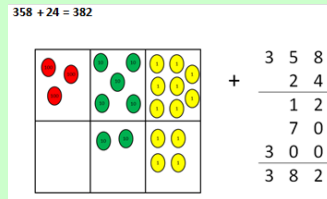


## Being a mathematician *Number & Fractions*

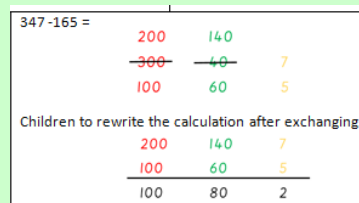
- Read and write to 1000 in numerals and words.
- Compare and order numbers to 1000
- Count in multiples of 4, 8, 50 and 100.
- Represent and estimate numbers using different visuals
- Recognise place value of each digit in 3 digit numbers
- Partition 3 digit numbers into different combinations of hundreds, tens and ones
- Add and subtract mentally 3-digit numbers and ones / tens / hundreds
- Add numbers with up to 3-digits using formal written methods
- Subtract numbers with up to 3-digits using formal written methods
- Recall doubles of all numbers to 100 with units digits 5 or less, and corresponding halves (E.g. Double 43, double 72, half of 46)
- Estimate the answer to a calculation
- Use the inverse to check calculations
- Solve one step, then two step number problems
- Solve missing number problems
- Recall and use multiplication and division facts for 3, 4 and 8 times tables verbally and in written form
- Solve problems involving multiplication and division using mental and written methods including 2-digit number with a 1-digit number
- Solve missing number problems that involve multiplication and division using written methods
- Count up and down in tenths
- Recognise that tenths arise from dividing an object into ten equal parts
- Divide one digit numbers into tenths and quantities by 10R
- Recognise, find and write fractions of shapes and a discrete set of objects using unit and non-unit fractions
- Recognise, find and write fractions of numbers using unit and non-unit fractions
- Add and subtract fractions with the same denominator within one whole ( $5/7 + 1/7 = 6/7$ )
- Compare and order unit fractions and fractions with the same denominators

## A Year Three Child Mathematics

### Addition strategies



### Subtraction strategies



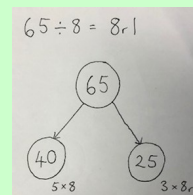
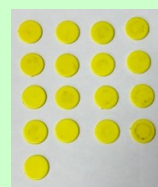
### Multiplication strategies

$13 \times 4 =$

X	10	3
4	40	12

	2	4
x	4	
<hr/>		
	8	0
<hr/>		
	1	6
<hr/>		
	9	6

### Division strategies



## Being a mathematician *Measurement, geometry & statistics*

- Measure and compare length in any direction (m/cm/mm)
- Add and subtract length
- Measure the perimeter of simple 2-D shapes
- Measure and compare mass (kg/g)
- Add and subtract mass
- Measure and compare volume/capacity (l/ml)
- Add and subtract volume/capacity
- Add and subtract amounts of money using both £ and p
- Tell and write the time to the nearest minute from an analogue clock on a 12-hour clock
- Tell and write the time to the nearest minute from an analogue clock on a 24-hour clock
- Tell and write the time using Roman numerals I to XII
- Record and compare time in seconds, minutes and hours
- Use specific vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight
- Know the number of seconds in a minute and the number of days in each month, year and leap year
- Compare durations of events
- Recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn
- Interpret data using bar charts, pictograms and tables to solve problems
- Present data using bar charts, pictograms and tables to solve two step problems
- Draw 2-D shapes and make 3-D shapes using modelling materials
- Recognise 3-D shapes in different orientations and describe their properties
- Identify right angles; compare other angles to being greater or smaller than a right angle
- Identify horizontal and vertical, parallel and perpendicular lines

***For more detail on our mathematical strategies, please see our calculation policy.***

Perimeter

Perimeter - distance around the edge of a shape.

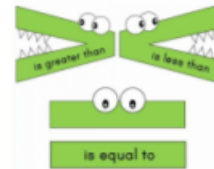
$4\text{cm} + 3\text{cm} + 4\text{cm} + 3\text{cm} = 14\text{cm}$



Place Value

Hundreds	Tens	Ones	decimal	tenths
5	4	1		

**Numerals:** 1, 20, 50, 100, 550  
**Words:** four, seven, eight, thirty, forty, fifty, ninety, hundred



2D Shapes

Name of shape	No. of sides
Quadrilateral	4
Pentagon	5
Hexagon	6
Heptagon	7
Octagon	8

Roman Numerals

I	2	3	4
I	II	III	IV
5	6	7	8
V	VI	VII	VIII
9	10	11	12
IX	X	XI	XII

Measure

1 centimetre	10 millimetres
1 metre	100 centimetres
1 litre	1000 millilitres
1 kilogram	1000 grams

Equivalent fractions

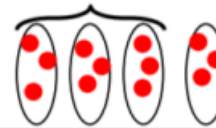


Fractions with different numerators and denominators that represent the same value.

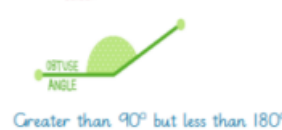
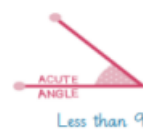
Finding fractions of numbers

Divide by the denominator and multiply by the numerator

$\frac{3}{4}$  of 12  
 $12 \div 4 = 3$   
 $3 \times 3 = 9$



Angles

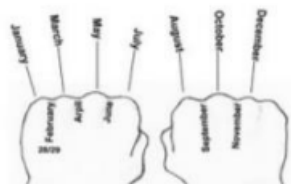


Time: To convert from analogue to digital, add or subtract 12.

24 hours = 1 day    7 days = 1 week

52 weeks = 1 year

Time fact



365 days = 1 year  
 366 days = 1 leap year  
 60 seconds = 1 minute

3

Maths

Fractions

$\frac{3}{5}$  ← numerator  
 ← denominator

Adding fractions

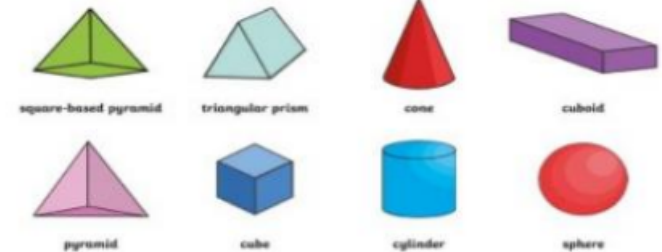
$\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$

If the denominator is the same, just add the numerators

Lines:



3D Shapes



Quadrilaterals





To be secure in this unit you must:

- Recognise that they need light in order to see things and that dark is the absence of light
- Notice that light is reflected from surfaces
- Recognise that light from the sun can be dangerous and that there are ways to protect their eyes
- Recognise that shadows are formed when the light from a light source is blocked by an opaque object
- Find patterns in the way that the size of shadows change

Develop scientific skills:

- Make relevant predictions.
- Identify what they will change, observe, measure and keep the same.
- Set up simple practical enquiries, comparative and fair tests.
- Make systematic and careful observations using scientific equipment.
- Perform tests and simple experiments and take measurements using standard units.
- Gather, record and classify data in a variety of ways to help in answering questions.
- Use results to draw simple conclusions.

Vocabulary

Light	A form of energy that lets us see and travels in straight lines
Light sources	Objects that make their own light
natural light sources	Light that comes from nature and is not made from humans e.g. the sun, lightning, fireflies.
artificial light sources	Light that is made by humans e.g. lamps, torches, televisions
Sun	The star at the centre of our solar system that gives off light and heat
sunglasses	Glasses that are tinted to protect eyes from sunlight.
protect	To keep something safe from harm.
reflection	When light bounces off a surface - this allows us to see the object.
shadow	A dark shape on a surface that is made when something stands between a light and the surface.
opaque,	An object or substance that does not let any light through.
transparent,	An object or substance that lets light through so you can see clearly.
translucent	An object or substance that lets some light through but not clearly.
useful vocabulary: fair test, identify, group and classify, distance, measure, centimetres	

Sticky Knowledge

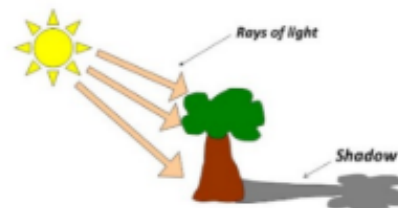
We see things when light from a light source enters our eyes through the pupil

Pupil

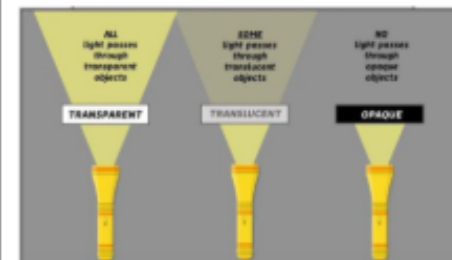
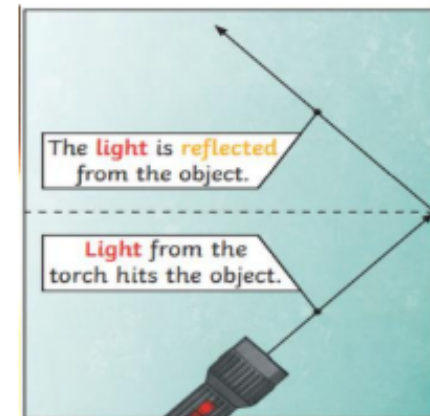
Light travels from the light source and into the eye

The light travels from the light source, bounces off the object and into the eye

How are shadows formed?



Useful Diagrams



**LKS2**  
**Geography**  
**Rainforests**



At the end of this unit you must:

**Knowledge**

- I know what is meant by tropics.
- I can identify the position and significance of Northern Hemisphere and Southern Hemisphere.
- Know the names of four countries and four cities from the Northern and Southern Hemisphere.
- I can locate the equator and know what physical things are there.
- Know the names of and locate at least eight major capital cities across the world.
- I know the names of and can locate some of the world's deserts.
- Describe and understand a vegetational belt (Amazon Rainforest).
- Label layers of a rainforest and know what deforestation is. (vegetation belt)
- Understand geographical similarities and differences through the study of human and physical geography of a region in South America (small region in Brazil – Yanomami Tribe).
- I can identify key features of the South American rainforest.

**Skills:**

- Interpret a range of sources including maps, diagrams, globes, aerial photographs and GIS.
- Use a wider range of maps (including digital), atlases and globes to locate countries and features studied.
- Use maps and diagrams from a range of publications e.g. holiday brochures, leaflets, town plans.
- Use maps at more than one scale.
- Recognise that larger scale maps cover less area.
- Recognise patterns on maps and begin to explain what they show.
- Use the index and contents page of atlases.
- Label maps with titles to show their purpose
- Recognise that contours show height and slope.
- Use 4 figure coordinates to locate features on maps.
- Create maps of small areas with features in the correct place.
- Link features on maps to photos and aerial views.
- Use the eight points of a compass, four figure grid references, symbols and key (including OS) to build their knowledge of the United Kingdom and wider world.

**Vocabulary**

**Sticky Knowledge**

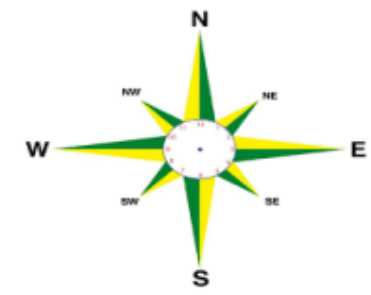
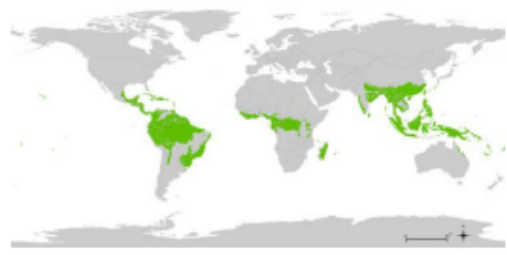
<b>Rainforest</b>	Thick forests found in wet areas of the world are called rainforests. Tropical rainforests occur around the equator in the hot, wet region called the tropics.
<b>Vegetation belt</b>	Vegetation belts are regions of the world that are home to certain plant species determined by the climate.
<b>Climate</b>	Climate is the average weather conditions in a place over 30 years or more.
<b>Deforestation</b>	Deforestation is the cutting down of forests or groups of trees which is then turned into non-forest use.
<b>Biome</b>	Biomes are regions of the world with similar climate (weather, temperature) animals and plants.
<b>Equator</b>	The Equator is an imaginary line that is drawn around the middle of the Earth to divide it into the Northern and Southern Hemispheres.
<b>Tropics</b>	The tropics are the region of the Earth near to the equator and between the Tropic of Cancer in the northern hemisphere and the Tropic of Capricorn in the southern hemisphere.
<b>Yanomami Tribe</b>	The Yanomami are the largest relatively isolated tribe in South America. They live in the rainforests and mountains of northern Brazil and southern Venezuela.
<b>Settlement</b>	Settlements are places where people live and sometimes work.
<b>Land use</b>	Function of land – what land is used for.

The Amazon Rainforest is the world's largest tropical rainforest. It is located in northern South America. The rainforest covers some 6,000,000 square kilometres of land surrounding the Amazon River and its tributaries.



The Amazon Rainforest lies in parts of nine countries: Brazil, Ecuador, Venezuela, Suriname, Peru, Colombia, Bolivia, Guyana, and French Guiana. However, most of the rainforest is in Brazil, where it makes up about 40 percent of the country's total area.

The Amazon Rainforest has the richest and most varied plant and animal life in the world. It contains several million species of plants, insects, birds, other animals, and other living things.



## LKS2 Aut 1 A Mechanisms



To be secure in this unit you must:

### Design:

- Use ideas from other people and designs when planning and designing.  
Produce a plan and explain the design with reasons why it meets the criteria.  
**Communicate ideas in a range of different ways including working drawings and annotation on drawings to generate, develop and extend ideas.**

### Make:

Follow a step-by-step plan, choosing the right equipment and materials.  
**Select materials and components appropriately from a wide range based on their appearance and function including construction materials, textiles and ingredients.**

**Evaluate:**

**Evaluate products for both their purpose and appearance.**  
Evaluate and suggest improvements for design.

### Technical Skills:

#### Mechanisms:

- Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears).

Vocabulary		Sticky Knowledge	Inspiration
<b>mechanism</b>	a device used to create movement	 	 
<b>pneumatic</b>	a system that works using gases (air)		
<b>syringe</b>	a tube with a nozzle and plunger		
<b>plunger</b>	a rubber suction cup and handle		
<b>system</b>	a set of related parts and components that have an input, process and output.		
<b>process</b>			
<b>compressed</b>	something squashed, such as air in a tube		
<b>input</b>	what goes into a system		
<b>output</b>	what comes out of a system		
<b>inflate</b>	fill something with air or gas to make it swell up		
<b>deflate</b>	removing air/gas to allow an object to shrink		
<b>pressure</b>	the force used on an object or surface		
		<ul style="list-style-type: none"> <li>Identify the user, purpose and function from a letter from Chester Zoo</li> <li>Explore existing products that work with air; they will sketch these products and write an explanation for how they work.</li> <li>Attempt to move a book across a table using 2 syringes and tubing. They will attempt to lift a book off the table using a syringe, tubing and a balloon.</li> <li>Sketch and annotate their own design based on animals found in Chester Zoo.</li> <li>Write step-by-step instructions for making a moving animal</li> <li>Evaluate their product with reference to the design brief.</li> </ul>	



## Learning Qualities

### Class Three

The following outlines the key year group skills that we are committed to developing which will help our children to become successful life long learners. It is helpful to see these as 'Learn to Learn' skills.

#### Gaining Independence

- Begin to take increased responsibility for organising their own things, including resources and belongings
- Welcome opportunities to take an added responsibility
- Work within a time frame and prioritise the most important things that need doing
- Set and review learning targets
- Explain who helps them learn and why
- Not put off by changes to normal routine

#### Becoming Collaborative

- Work harmoniously and constructively with others in joint activity
- Make sure that everybody takes a turn when speaking
- Give feedback to others in a group on their performance
- Work readily in different teams
- Listen to and follow instructions independently
- Take on a specific allocated role in a group
- Respect and tolerate values and beliefs of others in a joint activity
- Communicate capably as a team member

#### Building Resilience

- Begin to talk about 'Growth Mindset' and 'Fixed Mindset'
- Keep emotions in check when tasks get tough
- Enjoy challenges, especially open ended or deeper thinking ones
- Try different ways to solve a problem
- Start to understand the power of 'yet'
- Know we can learn from mistakes and recognise

#### Developing Confidence

- Work harmoniously and constructively with others in joint activity sharing ideas with confidence
- Communicate capably as a team member
- Describe own strengths and weaknesses
- Say who or what helps them learn; and how and why they know
- Understand the factors that stop them from learning effectively

#### Being Inquisitive

- Devise sensible questions to ask different people
- Suggest a question which can be investigated
- Follow up a question to gain clarification
- Show thinking in different ways, e.g. mind maps
- Use more than one piece of evidence to support findings
- See the relationship between things and use to explain to others
- Sort information and choose what is most relevant

# Year 3

## Cycle A



Grow our own fruit and veg

Harmony Research Project



Be at one with nature

Forest School

Be a heritage host



Celebrating cultural days/ holidays



Be a helping hand



Play Leaders

Careers week

Be inspired to aspire



Sustainability Club



Summerseat Methodist Primary School  
Infinite Eight  
Core Experiences Offer

Litter picking

Jesse Treece & William Morris

Marvel at the masters



Egypt exhibit at Manchester Museum

Musical Theatre Club

Be part of a top team



Anderton Centre

Sports events

Walk in someone else's shoes



British Values

Be a culture collector



Visit Rowlands Church to explore a place of worship

Learn about different beliefs within RE.