

Year 6 Curriculum Overview Term 1.1

Teaching Team:

Class Teachers: Miss Fisher, Mr Chapman and Miss Shakespeare

Teaching Assistant: Miss West

SLT: Mr Aldred

PE: PE lessons are on **Tuesday**.

On this day, children must be wearing their P.E kits. This includes a white t-shirt, black bottoms and trainers. No jewellery is to be worn on PE days; parents must remove this before bringing their child to school on this day.

Homework: Friday.

Please see below an overview of the main themes, knowledge, and skills we will be covering this half term.

Enquiry	How do circumstances in Brazil affect	
Question	humans and the environment?	
Significant People	Katherine Rundell	
Class Texts	The Explorer by Katherine Rundell Themes: survival, friendship, courage, discovery. "His skin was the same colour as the river; his hair was black, his cheeks hollow. He was lean and fierce, and his eyes shone bright as a cat's." When their plane crashes in the Amazon rainforest, Fred, Con, Lila and Max find themselves stranded, with no adults to help them. As they struggle to survive, they uncover clues that lead them to a hidden city and a mysterious man who lives there. Facing hunger, danger, and the wildness of the jungle, the children must rely on their courage and each other. Can they learn to trust, adapt and discover a way back home—or will the jungle keep its hold on them forever?	
Reading	In this unit, pupils will develop their reading fluency and comprehension through a balance of fiction and non-fiction texts, including narrative and information texts. Early lessons focus on word meaning and vocabulary development, beginning with strategies such as reading around the word, word substitution, and exploring root words, prefixes, and suffixes. Pupils will then practise retrieving and recording information, using a range of question types and test techniques, including true or false, matching, find and copy, and multiple choice. These skills will support pupils in building accuracy and	

confidence when tackling both fiction and non-fiction extracts.

As the unit progresses, the focus shifts to higher-level skills of inference and prediction. Pupils will make inferences about characters' thoughts and feelings, justifying their ideas with evidence from the text and applying test techniques such as multiple choice and short constructed responses (e.g. "I infer that...because..."). In the final weeks, pupils will use their inference skills to support making predictions, drawing on both stated and implied details. Across the term, pupils will have regular opportunities to apply these strategies to a variety of texts, while also preparing for formal reading assessments by practising a range of SATs-style question formats.

Writing

Over the first four weeks, pupils will focus on descriptive and narrative writing. They will begin by developing setting descriptions, learning how to use noun phrases, expanded noun phrases, and fronted adverbials to add detail and atmosphere. These skills will then be applied to their own imaginative settings before moving on to narrative writing, where pupils will innovate on existing story structures and create their own openings and events. Alongside this, grammar teaching will cover subject and object, different types of clauses, coordinating and subordinating conjunctions, and the use of verbs as openers. Pupils will also practise writing dialogue to build character and advance action. Extended writing opportunities each week will allow them to apply these skills creatively and with

increasing independence.

In the final two weeks, the focus will shift to non-fiction writing in the form of nonchronological reports. Pupils will learn how to structure reports effectively, using additional information to extend paragraphs and applying a range of sentence types, including questions and exclamations, for impact. They will also develop an understanding of formal language to suit the purpose of informing and discussing. The extended writing outcomes will provide opportunities to write reports on factual topics, ensuring pupils can adapt their skills for different purposes and audiences. Weekly spelling sessions will continue throughout, supporting accuracy and consistency in their writing.

Maths

During this half term, the pupils will be focusing on place value and number, with numbers up to 10,000,000 recapping on their knowledge of number from Year 5. They will learn to read, write, order, and compare numbers up to 10,000,000 and determine the value of each digit and solve number and practical problems that involve the above.

Geography

In this unit, pupils will develop their geographical knowledge and understanding of South America, with a focus on Brazil and the Amazon region. They will begin by locating continents, oceans, and the UK before exploring South America in detail, identifying countries, cities, and key physical features such as the Amazon River and Rainforest. Pupils will investigate climate, vegetation, population, and topography, using maps, atlases, digital resources, and data to create fact files and build contextual

knowledge. They will then compare human and physical geography between Brazil and the United Kingdom, analysing similarities and differences in features such as population, environment, and settlements.

The unit will then focus on physical geography, beginning with the processes of river erosion and the features of rivers. applying this knowledge to the Amazon River. Pupils will go on to study rainforest biomes, understanding their location, climate, layers, and biodiversity. They will consolidate their learning through group research and presentations, developing both subject knowledge and oracy. In the final lessons, pupils will investigate the impact of deforestation, considering its effects on rivers, ecosystems, climate change, and human populations. They will also discuss sustainability and conservation, linking to contemporary environmental issues. By the end of the unit, pupils will be able to locate and describe South America's physical and human geography, explain key geographical processes, and evaluate the environmental challenges facing the Amazon today.

Science	This half term, the children will begin their science learning with the unit 'Evolution and Inheritance.' This project teaches children how living things on Earth have changed over time and how fossils provide evidence for this. They will also learn how characteristics are passed from parents to their offspring and how variation in offspring can affect their survival with changes possibly leading to the evolution of a species. Moving into the second half of the half term, the children shall start the unit 'Circulatory System.' This project teaches the children about the transport role of the human circulatory system, its main parts, and primary functions. They will learn about healthy lifestyles choices and the effects of harmful substances on the body.
Mandarin	Children will be learning about these topics, this half term: • Countries • Places • Feelings
Art	In art, the children will complete the unit 'Trailblazers, Barrier Breakers.' This project teaches the children about significant black
	artists and their work and provides them with opportunities to analyse and create artwork inspired by them.

Music	The children will be taught by an outside agency 'Create Music' who will be delivering ukulele lessons. The children will learn parts of the ukulele and will be able to play the ukulele and sing at the same time.
Computing	This term, the children shall complete the unit 'Communication and Collaboration.' In this unit learners explore how data is transferred over the internet. Learners initially focus on addressing, before they move on to the makeup and structure of data packets. Learners then look at how the internet facilitates online communication and collaboration; they complete shared projects online and evaluate different methods of communication. Finally, they learn how to communicate responsibly by considering what should and should not be shared on the internet.
PSHE	Pupils will be exploring how we can keep healthy as we grow. Pupils will consider what mental health is, how to express feelings, how they can be managed in changing, challenging and difficult times.
RE	Year 6 pupils will be exploring the disposition of living by rules, what it means and why it may be important. They will consider the rules of some religions – Islam, Christianity and Judaism and think about the aims of them as well as comparing them to rules within society.

PE	Pupils will be taught the skills required for
	basketball and OAA. They will incorporate
	and develop their social and
	emotional skills through working as a team.

Knowledge Organisers:

Reading



THE EXPLORER KNOWLEDGE ORGANISER



Katherine Rundell – Katherine Rundell is a contemporary British author known for her captivating diliders il iterature. Born in 1987 in Kent. England, Rundell developed a deep passion for stoytelling from a young age. She followed her academic interests at Oxford University, where she studied English Literature and later completed a Ph.D. in Renaissance Literature. Brondelf: Berondelf: Berondelf is described to the state of the Photostic Renaissance Literature.

later completed a Ph.D. in Renaissance Literature. Rundell's literary career began with her debut novel, 'The Girl Savage,' in 2011. However, it was her second novel, 'Rooftoppers,' published in 2013, that received widespread attention and made her a well-known voice in children's and made ner a well-imoun voice in children's literature. The book won several prestigious owards, including the Blue Peter Book Award and the Waterstones Children's Book Prize. Some of Rundell's other notable works include The Wolf Wilder, The Explorer, and The Good Thieves. The Explorer won th 2017 Costa Book Award Children's Book category. Amazon Exploration – The story is set in the Amazon rainforest in South America. There is a historical tradition of Amazon exploration, dating back to colonial expeditions in the 1500s, when European explorers ventured into South America seeking resources and knowledge but often caused harm to Indigenous populations. Rundell's story plays on this adventurous spirit, however she does note at the end of the text that the Amazon venerative peeks invested in the second control of the c odventurous spirit, however she does note at the end of the text that the Amazon 'urgenty needs protecting.'

Explorers – Although the story is fictional, Rundell explains in A Note on Explorers (at the end of the novel) that both the dity and explorer in the text howe 'roots in real life.' he gives a brief biography of Percy Fouwett (pictured) who went missing when exploring the Amazon ratinforest. Dozens of explorers subsequently went looking for him, much like the fictional explorer in the story. She explains that own of them didn't return. story. She explains that some of them didn't return.

Section-by-Section Summary

A plane carrying Fred, Con, Lila and Max crashes, after the pilot appears to die. This leaves the children stranded in the rainforest with no adults or guidance. They are uninjured but scared and bewildered. At they take in their surroundings, Fred, who has always dreamed of adventure, finds himself in the reality of survival, while the others are shaken and uncertain about how they'll survive.

they take in their surroundings, Fred, who has always dreamed of adventure, finds himself in the reality of survivol, while the others are shaden and uncertain loads the White Vision of White Vision of

The children cook for the explorer. He is thankful for the gesture, but does not like the food! He takes them spear fishing at night-time. They initially enjoy succes, but then need to leave when the explorer notes there are caiman around. He ididlen borow in his from the explorer and tattoo thermelves with an \mathcal{R} , as a part of a vow to tell no-one of the place. Even Max endures the pain to make the pledge.

The children enjoy a final few days of preparations, before they know they must make their long t lipsy play stuck in the must together in the rain. Their happines is short-lead, however, as they as the next marning in fall fault within in along. The response table them that they must get no within a week. The only way to do so guide enough is to fiy. At the explorer's legs do not work we enough, he will need to beach one of the children to fly the plane. They doubstress for the role.

The explorer has enough fuel to give Fred one flying lesson. It goes well, but he finds landing difficult. The explorer reveals how does he has grown to the children. The next morning, the children lessore the jungle. Lift bits it is give Boot to the explorer, but he tells her to beep lim. Fred funds he plans in a cattle field, people ruth to help, and Max is rescued in logical. The children are reunited with their porently gardness. Tuelske peers later, they meet in the Ritz. They have all help the screet.

Main Characters - Consider what Rundell intended through her characterisation of each of the below...

replaces and advertise. He is minigrationed and calmigrate that calmigrate the following expectations. Fred becomes a natural leader for the group, initially driven by his delier to return home, but later by his growing respect for the Amazon and its mysteries. His sense of identity, particularly how others perceive him, (notably his father) is a recurring theme through the novel.

Queete: It was Fred's idea to build a raft. The read a lot of books about it, he said!

Lila and Max - Lila and Max and Brazillani siblings. Lila is a similar age to Fred and Con (acound age 12) whereas Max is only 5. Lila is a gentle and composionate girl who carries a deep love for animals and nature. This is particularly seen when she rescues the boby sloth (Baca') and looks after it with care. Max is they oungest and most unierable member of the group. The explorer describes him as a 'cataclym.

**Queete: 'He work run'! Lila best over her brother: 'And I carry him!'

The Explorer – The mysterious explorer is a reclusive, knowledgeable man who lives alone in the Amazon after a life of adventure and personal loss. He is wise, after a life of adventure and personal loss. He is use, experienced, but dos gurff and scretible. While he initially resists helping the children, he gradually warms to them. The Explorer becomes a mentor figure, guiding the children in survival and subtly teaching them about the beauty and respect owed to the Amazon. Owelet: If transpires that the heart has its own petrol station, its own code, if so own cogh. Wall renews, so use if hugsly! Con – Con, short for Constantia, is a British girl with a

Con - Con, short for Constantia, is a British girl with a tough exterior. She initially seems pricitly and aloof, largely because of her difficult post and feelings of abandonment. Con provides a realistic, sometimes persimistic view that balances Fresh optimism. Her cautious nature is arucial for the group's survival, and her tough approach often pushes others to stoy facused. She learns to open up and to trust her companions. Queste: "Tra Con," the said! It's hat for Constantia, but if you call me that I'll kill you."



Survival and Self-Reliance – Survival is at the heart of the story as the young protagonists must learn to rely on their instincts and each other to navigate the challenges of the Amazon rainforest. This theme showcases the resilience of children and their ability to adapt, innovate, and overcome adversity in the face of unknown dangers. At first, the children are desperate to survive and make their way

home. As they become more adopted at surviving, they feel an affinity, with the jungle (and some wish to stoy!)

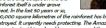
Respect for the Environment! Conservetion – The Amazon rainforest is depicted as both a wondrous and dangerous environment, highlighting the importance of respecting nature and understanding its power. Rundelf's descriptions emphasis the ecosystems beauty and fragility, of sterling an opportunity of the processing of the processi recious and endangered part of the world. The explorer warns of the dangers of human infring



"The heart has its own petrol station, its own coal, its own soap. It will renew, so use it hugely." Max is described as a 'cataclysm.' 'A caim as big as a Great Dane.' 'People do not tell you that love is so terrifying. It is less like rainbows and butterflies and more like jumping on to

the back of a moving dragon.

In 1500, before European invoices, the number of adapterup people in Brazil use in the high million; now there are only 300,000. And the number of a number or or only 300,000. And the number of the number prove threat. In the last 50 years or so, 600,000 quare slownests of the rainforest that he destroyed it unpertily needs protecting. The Amazon the most administry place I have ever seen I flousible the most administry place I have ever seen I flousible before I went, that I leneu what beauty uses. I did no



Writing

Punctuation Reminders:

Spelli	ngsI need to	know some of	these:
accommodate	correspond	hindrance	recognise
accompany	criticise	individual	recommend
according	curiosity	interfere	relevant
achieve	definite	interrupt	restaurant
aggressive	desperate	language	rhyme
amateur	determined	leisure	rhythm
ancient	develop	lightning	sacrifice
apparent	dictionary	marvellous	secretary
appreciate	embarrass	mischievous	shoulder
attached	environment	muscle	sincere
available	equip(-ped)	necessary	sincerely
average	equipment	neighbour	soldier
awkward	especially	nuisance	stomach
bargain	exaggerate	оссиру	sufficient
bruise	excellent	occur	suggest
category	existence	opportunity	symbol
committee	explanation	parliament	system
communicate	familiar	physical	temperature
community	foreign	prejudice	thorough
competition	forty	privilege	twelfth
conscience	frequently	profession	variety
conscious	government	programme	vegetable
controversy	guarantee	pronunciation	vehicle
convenience	harass	queue	yacht

Capital letters for sentences, initials and proper nouns. Full stops exclamations or surprise Question marks Apostrophes for possession and missing letters. Commas in lists, and to mark parenthesis, fronted adverbials and clauses Ellipsis to show a long pause for tension. Inverted commas for speech (Don't forget the commas Hyphen to connect words Dashes to show longer pauses or parenthesis. Brackets for parenthesis. ()

Splendid Subordination!

Use these conjunctions in varied places in your multi-clause sentences:

because before after until unless since when

Can you use a subordinate clause in different places in your sentences?

Writing Mat Working towards Year 6

Active and Passive

Use active and passive sentences appropriately:

Active: In front of millions of screaming fans, the star striker missed a vital penalty.

Passive: In front of millions of screaming fans, a vital penalty was missed by the star striker.

Important Links!

Link your sentences and paragraphs using adverbials:

Subsequently, Later that day, Finally,

Place

Deep inside the forest, Below the sea,

Frequency

Occasionally, Often,

Contrast / Cause

On the other hand, In contrast, As a result, Consequently,

Manner/ Behaviour

Breathing heavily, Waiting anxiously, Without warning, Suspecting the worst,

Use a mixture of simple, compound and multi-clause

Use a thesaurus to up-level your vocabulary choices.

It's All Relative!

Use a relative pronoun to add a relative clause who, which, where,

when, whose, that The Queen, who has reigned for 60 years, has four children.

The stench was so putrid that it made her eyes water.

They had ventured deep into the forest where they began to feel uneasy.



Important Links!

Link your sentences and paragraphs using adverbials

Time

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Deep inside the forest, Below the sea.

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Breathing heavily, Waiting anxiously, Without warning,

Creating Cohesion Top

Tip: Not only can you use pronouns like he, she, it or they instead of repeating a name or names but how about other names or titles too? Here's some examples: the teacher, she, Mrs Smith, the lovely woman or the lady with the long hair.

Be a Punctuation Professional: Writing Mat

Expected Year 6

Perfect Parenthesis!

Use brackets, commas or dashes to punctuate extra information and asides: The tomb of Tutankhamen (the Ancient Egyptian pharaoh) was discovered by Howard Carter.

The advancing alien, who was speaking a Martian language, looked dangerous.

The daffodils – my favourite sign of spring – swayed gently in the woodland breeze.

Use a thesaurus to look for more ambitious synonyms. Why use 'frightened' when you could use...

tartled alarmed apprehensive

Or 'show' a character's feelings:

his breathing quickened her heart raced

sweat trickled gasping for air

Spelli	ngs I need	to know all of	these:
accommodate	correspond	hindrance	recognise
accompany	criticise	individual	recommend
according	curiosity	interfere	relevant
achieve	definite	interrupt	restaurant
aggressive	desperate	language	rhyme
amateur	determined	leisure	rhythm
ancient	develop	lightning	sacrifice
apparent	dictionary	marvellous	secretary
appreciate	embarrass	mischievous	shoulder
attached	environment	muscle	sincere
available	equip(-ped)	necessary	sincerely
average	equipment	neighbour	soldier
awkward	especially	nuisance	stomach
bargain	exaggerate	оссиру	sufficient
bruise	excellent	occur	suggest
category	existence	opportunity	symbol
committee	explanation	parliament	system
communicate	familiar	physical	temperature
community	foreign	prejudice	thorough
competition	forty	privilege	twelfth
conscience	frequently	profession	variety
conscious	government	programme	vegetable
controversy	guarantee	pronunciation	vehicle
convenience	harass	queue	yacht

Active and Passive

Capital letters for sentences, initials and

Exclamation marks for

exclamations or surprise

Apostrophes for possession

proper nouns.

Question marks

and missing letters.

Commas in lists, and

Ellipsis to show a long

Hyphen to connect words

Dashes to show longer pauses or parenthesis.

information or asides.

Colon to separate clauses.

Semi colons to separate

Brackets for extra

pause for tension. Inverted commas for speech (Don't forget the commas

too!).

()

Full stops

Use active and passive sentences appropriately:

Active: In front of millions of screaming fans, the star striker missed a vital penalty.

Passive: In front of millions of screaming fans, a vital penalty was missed by the star striker.

Check for:

consistent tense and person cohesive links

· layout devices

- subject/verb agreement
- paragraphs with

Splendid Subordination!

Use these conjunctions in varied places in your multi-clause sentences:

if because as before after until unless since when

Writing Mat Greater Depth Year 6

Spellings I need to know all of these:			
accommodate	correspond	hindrance	recognise
accompany	criticise	individual	recommend
according	curiosity	interfere	relevant
achieve	definite	interrupt	restaurant
aggressive	desperate	language	rhyme
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conscious	government	programme	vegetable
controversy	guarantee	pronunciation	vehicle
convenience	harass	queue	yacht

Punctuation Reminders: A . ! ? ' , "" () ... : ; Use a full range of punctuation.

Check for:

- consistent tense and person
- · subject/verb agreement
- paragraphs with
- cohesive links
- genre features
- layout devices
- pronouns/ nouns for cohesion

Active and Passive

Use active and passive sentences appropriately:

Active: In front of millions of screaming fans, the star striker missed a vital penalty.

Passive: In front of millions of screaming fans, a vital penalty was missed by the star striker.

Create a Mood!

Where appropriate, in formal writing, use the subjunctive mood:

If I were The Queen, ...

Were there to be a change in my circumstances...

Splendid Subordination!

Use these conjunctions in varied places in your multi-clause sentences:

if	because	as
before	after	until
unless	since	when

Use a thesaurus to look for more ambitious synonyms. Why use 'frightened' when you could use...

startled alarmed apprehensive
Or 'show' a character's feelings:

his breathing quickened her heart raced sweat trickled gasping for air

Perfect Parenthesis!

Use brackets, commas or dashes to punctuate extra information and asides:

The tomb of Tutankhamen (the Ancient Egyptian pharaoh) was discovered by Howard Carter.

The advancing alien, who was speaking a Martian language, looked dangerous.

The daffodils – my favourite sign of spring – swayed gently in the woodland breeze.

Be a Punctuation Professional!

Use semi colons, colons and dashes to mark independent clauses:

It felt like forever- the longest six weeks holiday of all time.

Jack's eyes slowly opened; there was no one to be seen.

They all knew his secret: he was a specialist secret agent.

Important Links!

Link your sentences and paragraphs using adverbials:

Time

Subsequently, Later that day,

Place

Deep inside the forest, Below the sea,

Frequency

Occasionally, Often,

Contrast/ Cause

On the other hand, In contrast,
As a result, Consequently,

Manner/ Behaviour

Breathing heavily, Waiting anxiously, Without warning,

Geography

	Geographical Vocabulary
rainforest	A dense forest, normally found in tropical areas with high rainfall. They generate much of the world's oxygen.
country	A nation with its own government e.g. UK, USA, Germany
continent	The world's main continuous pieces of land – Africa, Asia, Australasia, Europe, North America, South America, Antarctica
equator	Imaginary line through the middle of the Earth that receives the most sunlight.
Tropic of Cancer/Capricorn	Imaginary lines north and south of the equator. Most rainforests can be found between these two lines.
climate	The weather and temperature usually found in an area over a long period of time.
biome	A large region of Earth that has a certain climate and certain types of living things.
temperate	Places where it is neither very hot nor very cold. Usually has warm summers and cool winters.
tropical	Around the middle of the world in the region called the Tropics where it is warm all year.
biodiversity	The wide range of living things on Earth.
ecosystem	A community of plants and animals that rely on each other to survive.
indigenous	A living thing that belongs naturally to an area.
deforestation	The action of clearing a wide area of trees.
human features	Areas of land which are man-made/synthetic. They are there because of human ideas and actions.
physical features	These are the physical characteristics of the land and are there naturally (mountains rivers etc.)

	Key Information about Brazil			
Continent	South America	Capital city	Brasilia	
Surrounding waters	Atlantic ocean Amazon river	Main language	Portuguese	
Religions	Christianity,	Population	209.3 million people (2017)	
followed in Brazil	Judaism and Islam.	Other major cities	Sao Paolo, Rio de Janeiro, Porto Alegre, Manaus	
Currency	Brazilian real (BRL)	Famous for	The Amazon jungle, Carnival and 2016 Olympics	







Knowledge Organiser

Layers and Features of the Rainforest		
Emergent Layer	Giant trees that enjoy the most sun but high winds and cold.	
Canopy	Dense layer of trees overlapping each other. Home to most animals in rainforests.	
Understory	Relatively dark, open area below the canopy.	
Undergrowth	Also known as the forest floor mainly consisting of fallen leaves, fruit etc. that decomposes as food for trees.	
Flora & Fauna	Flora = plants; Fauna = animals	
Camouflage	Blending in to hide in the natural environment.	

	Causes of Deforestation
1	To clear space for farming: growing crops (e.g. soya beans & palm oil) and space cattle to generate cheap beef.
2	Chopping down trees for wood.
3	To build roads to mine for metals, gold & diamonds.
4	To dig for oil.
5	To flood areas to make dams & generate electricity.

	Impact of Deforestation
1	An area the size of 20 football pitches is destroyed every 60 seconds.
2	% of the tropical rainforests we had are gone.
3	28,000 species of animals are expected to become extinct in the next 25 years.
4	Local people's homes are destroyed.
5	Levels of carbon dioxide in the air are increasing and oxygen is decreasing.

Science



Luminous objects are sources of light. Non-luminous objects do not produce their own light

When light hits an object it can be absorbed, reflected, or transmitted If an object is:

transparent – most light is transmitted translucent – light is scattered

opaque – no light is transmitted so a shadow is produced.

Light can travel through gases, some solids and liquids, and completely empty space (a vacuum).

The speed of light in a vacuum is about 300000 km/s.

Distances in space are measured in light-time. Remember that light-time is a distance (not a measure of time).

A light-minute is the distance light travels in one minute.

A light-year is the distance light travels in one year.

Colours of light

A prism refracts different colours of light by different amounts This disperses light into a continuous spectrum of colours.

The **primary colours** of light are **red**, green, and blue.

Secondary colours are produced when any two primary colours are mixed.

Filters subtract colours from white light, so that only one colour of light is transmitted.

Objects appear to be different colours because they reflect some

colours of light and absorb others.
Black objects absorb all colours and white objects reflect all colours

The law of reflection states that: The **angle of incidence** is equal to the **angle of reflection**.



Images in mirrors are virtual they look like they are behind the mirror.



Whether or not you can see a clear reflected image depends on how



Refraction is when light changes direction when it travels from one **medium** (material, such as air or water) to another. Refraction happens because light travels at different speeds in different materials.

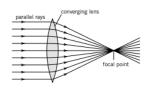
Rays of light will be refracted:

- towards the normal if they slow down, such as going from air to glass
- away from the normal if they speed up, such as going from water to air.



Lenses use refraction to spread out or focus light.

Convex (or converging) lenses (like the ones in your eyes) a shaped to focus the light to a point – called the **focal point**.



How do eyes and cameras work?

Light entering your eye is refracted by the **lens**, focusing it on the **retina** and creating an inverted image.

Photoreceptors detect the light hitting your retina and send an electrical impulse to your brain.



Digital cameras now have a **charge-coupled device** (**CCD**) instead of film – when light hits a **pixel** it produces an electrical charge.

Make sure you can write definitions for these key terms.

absorb angle of incidence charge-coupled device colour converging convex diffuse scattering filter focal point focus incident ray law of reflection lens light-time luminous normal opaque photoreceptor pixel primary colour prism real image refraction retina secondary transmit spectrum specular reflection reflection translucent transmit transparent virtualimage

Home Learning

You could visit the International Slavery Museum in Liverpool



Reading:

Oxford Owl for School and Home

Reading and comprehension - English - Learning with BBC Bitesize - BBC Bitesize https://schoolreadinglist.co.uk/reading-lists-for-ks2-school-pupils/suggested-reading-list-for-year-6-pupils-ks2-age-10-11/

Writing:

https://www.bbc.co.uk/bitesize/subjects/zv48q6f/year/zncsscw Spelling and Grammar, English Games for 7-11 Years - Topmarks

Maths:

https://www.bbc.co.uk/bitesize/subjects/z826n39/year/zncsscw

Science:

https://www.bbc.co.uk/bitesize/topics/zvrrd2p/articles/zka7wnb

Computing:

<u>Is my child safe online? Parent's questions answered | Barnardo's (barnardos.org.uk)</u>

Parents and Carers - UK Safer Internet Centre

Parental Controls & Privacy Settings Guides | Internet Matters

PSHE:

<u>Talk PANTS & Join Pantosaurus - The Underwear Rule | NSPCC</u> <u>How to make an emergency 999 call – West Midlands Ambulance Service University NHS</u> Foundation Trust (wmas.nhs.uk)

PF:

Nutrition Based Physical Activity Games - Action for Healthy Kids Kids Active Learning & PE at Home - Think Active

<u>Useful Links:</u>

https://www.theschoolrun.com/homework-help/atlantic-slave-trade https://www.unhcr.org/uk/teaching-about-refugees.html