Knowledge Organiser Booklet Year 6 Autumn I

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CPCC.

Use your knowledge organisers to help you remember more.

	Test	Only	Memory	Order,	Phone a	Picture
	Yourself!	Connect!	Cards	Order!	Friend!	it!
1	Look at and study the definitions of the key vocabulary on your knowledge organiser.	Create a mind map, making connections and links with things that you remember without looking back.	Make your own information cards by writing questions about key vocabulary on one side of the card.	Using a simple line, sort information from your topic into chronological, sequential or hierarchical order.	Ask a friend or family member to have the knowledge organiser or memory cards in their hands.	Read over your knowledge organiser and the key vocabulary, remembering the definition.
2	Cover or hide the	Challenge yourself	On the other side of	Check these with a	Get them to test you	Using the
	information on the	by covering or	the card, write the	friend or family	by asking different	information you
	knowledge organiser	hiding the	answer to your	member, using data	questions about the	remember, draw
	and write down	knowledge	questions. You could	on your knowledge	information on your	pictures or
	everything that you	organiser, using	add pictures to your	organiser, add more	knowledge	diagrams to
	remember.	what you can recall.	cards.	detail.	organiser.	represent words.
3	Check your notes!	Check what you	Ask a friend or	Challenge yourself	Write your own	Showing your
	Correct your	have added to your	family member to	by adding	sentences using the	diagrams to friends
	mistakes and add	mind map by using	ask you the	information you	key vocabulary to	or family, ask them
	anything that you	your knowledge	questions you	recall from previous	replace those on the	to guess which word
	might have missed	organiser to correct	created or to ask	topics which are	knowledge	you have
	out.	any mistakes.	you new questions.	related.	organiser.	represented.

This is your Year 6 Computing Knowledge Organiser for Autumn I - Communication and Collaboration

Tier 2 Vocabulary

Key Vocabulary

transfer	IP Address	Domain Name Server (DNS)	data packet	media	internet based communication
To move something or someone from one place to another.	An online device address used for connecting and communicating across the internet.	A server responsible for keeping the file that contains information about the domain name(s) and corresponding IP addresses .	5 5 1	The main means of mass communication from broadcasts, publishing and the internet.	Means to share information over the internet .
You can transfer files, data and media through email.	A numerical identifier for every device or network that is connected to the internet.	A DNS turns domain names into IP addresses, which allows browsers to get to websites.	Data packets are used in IP transmissions for data that navigates the web.	A type of media that involves content and a device for which it is to be seen.	From instant messaging to virtual calling, the internet offers many ways to communicate .
You will explore how images, text, audio and video are transferred using an IP address.	You will understand IP Addresses and the rules that computers have in order to communicate with each other.	You will use a Domain Name Server to translate web addresses into IP addresses .	You will learn the key parts of a data packet : the header and the data payload.	You will come across many forms of media on the internet including video, audio and images.	You will learn how internet based communication can be most effective.
The performance will transfer from the West End theatre to Hackney Empire.				(日) (日) (日) (日) (日) (日) (日) (日) (日) (日)	B B B B B B B B B B B B B B B B B B B

How this connects with previous learning

In Year 3, you began to develop In Year 4, you learnt that the your understanding of digital devices, with a focus on inputs, processes, and outputs.

World Wide Web is part of the internet, and learnt who owns content and what is honest, accurate, or reliable information.

In Year 5, you learnt how information is **transferred** between systems and devices using networks and connected devices.

In KS3, you will gain a stronger understanding of computer networks and how these communicate.

how networks are used, the benefits of them and how data information and news is is transmitted across vast networks using protocols.

How this connects with future learning

You will also learn more about In everyday life you will begin to see how delivered to you and the impact of the

This is your Year 6 Design Technology Knowledge Organiser for Autumn I – Pulleys							
DT Themes Tier 2			Key Vocabulary				
mechanisms	construct	accuracy	pulley	driver	follower	drive belt	
A device used to create movement in a product.	Something that limits or controls what you can do.	Something new and original.	A grooved wheel over which a drive belt can run.	The pulley that provides the input movement to the system.	The pulley that provides the output movement to the system.		
Mechanisms are used in in many everyday objects including analogue clocks and bikes.	Time constraints mean that there is only a certain amount of time to complete a project.	The wheel was an innovative product because it made it much easier to transport items or people quickly.	Pulleys are often used to lift heavy items.	Our driver will be a small pulley attached to the motor.	Our follower will be a large pulley attached to the wheels.	The drive belt will transfer power from the driver to the follower.	
A mechanical system is a set of related parts or components used to create movement.	A money constraint means that you are given a budget which you must stick to.	Mobile phones were an innovative product as they allowed people to be contacted outside of the home.	We will use pulleys to transfer power from the motor to the wheels.	The small pulley is known as the driver because it provides all the power to the mechanical system.	Our follower will move in the same direction as the driver.	We will use an elastic band as our drive belt .	
Our moving vehicles will use a mechanical system.	Limited resources can also be a constraint for a project.	Innovation enables us to solve new or existing problems.		driver	follower	drive belt	
How this	connects with previous l	earning		How this	connects with future le	arning	
In Year I, you designed, made and evaluated a moving poster.	In Year 2, you designed, made and evaluated a vehicle using wheels and axles.	In Year 4, you used an electrical system when designing, making and evaluating a lamp.		In Year 6, you will design, make and evaluate an electrical system, considering a range of constraints.	In Year 6, you will work accurately when making an electrical device case.	In Key Stage 3, you will explore how more advanced mechanical systems enable changes in movement and force.	

This is your Year 6 Geography Knowledge Organiser for Autumn I - Map It

Tier 2 Vocabulary

Key Vocabulary

interpret	time zones	Prime Meridian	strait	channel	canal
To explain the meaning of information	A geographic region where the same standard time is used.	The imaginary line that divides Earth into two equal parts which is also the basis for the world's time zones.	a narrow passage of water connecting two seas or two other large areas of water.	a length of water wider than a strait , joining two larger areas of water, especially two seas	an artificial waterway constructed to allow the passage of boats or ships inland
		The Prime Meridian intersect Algeria.	The Straits of Gibraltar separate Africa & Europe by only 8.Imiles / I3km.	The English Channel is called the <i>Manche</i> by the French.	The Panama Canal was completed in 1914.
We will interpret our research on the three regions to enable us to draw conclusions.	Australia and England are in different time zones .	The Prime Meridian runs through Greenwich in London.	The Straits of Gibraltar are an important trade route from Europe to the Atlantic Ocean.		The Suez Canal connects the red Sea to the Mediterranean Sea
l didn't understand the question so I asked my friend to interpret .		Print of Million	Europe Auror de Straho d'Obritan Tara d'Obritan Tara d'Obritan		
	To explain the meaning of information In Year 4, you interpreted data on the local area to find out why there were different levels of noise pollution. We will interpret our research on the three regions to enable us to draw conclusions. I didn't understand the question so I asked my	To explain the meaning of informationA geographic region where the same standard time is used.In Year 4, you interpreted data on the local area to find out why there were different levels of noise pollution.New York City in North America and Lima, Peru, in South America are in the same time zone.We will interpret our research on the three regions to enable us to draw conclusions.A geographic region where the same standard time is used.I didn't understand the question so l asked myI geographic region here the same standard time is used.	To explain the meaning of informationA geographic region where the same standard time is used.The imaginary line that divides Earth into two equal parts which is also the basis for the world's time zones.In Year 4, you interpreted data on the local area to find out why there were different levels of noise pollution.New York City in North America and Lima, Peru, in South America are in the same time zone.The Prime Meridian intersect Algeria.We will interpret our research on the three regions to enable us to draw conclusions.Australia and England are in different time zones.The Prime Meridian runs through Greenwich in London.	To explain the meaning of informationA geographic region where the same standard time is used.The imaginary line that divides Earth into two equal parts which is also the basis for the world's time zones.a narrow passage of water connecting two seas or two other large areas of water.In Year 4, you interpreted data on the local area to find out why there were different levels of noise pollution.New York City in North America and Lima, Peru, in South America are in the same time zone.The Prime Meridian intersect Algeria.The Straits of Gibraltar separate Africa & Europe by only 8.Imiles / I3km.We will interpret our research on the three regions to enable us to draw conclusions.Australia and England are in different time zones.The Prime Meridian runs 	To explain the meaning of informationA geographic region where the same standard time is used.The imaginary line that divides Earth into two equal parts which is also the basis for the world's timea narrow passage of water connecting two seas or two other large areas of water.a length of water wider than a strait, joining two larger areas of water, especially two seasIn Year 4, you interpreted data on the local area to find out why there were different levels of noise pollution.New York City in North America and Lima, Peru, in South America are in the same time zone.The Prime Meridian intersect Algeria.The Straits of Gibraltar separate Africa & Europe by only 8.Imiles / 13km.The English Channel is called the Manche by the French.We will interpret our research on the three regions to enable us to draw conclusions.Australia and England are in different time zones.The Prime Meridian runs through Greenwich in London.The Straits of Gibraltar are an important trade route from Europe to the Atlantic Ocean.The English Channel is 348 miles/560km long and 21 miles/ 34km wide at its narrowest point.

How this connects with previous learning

In Year 4, you learned how longitude can be used to describe the position of a place.

In Year 4, you learned about the link between climate zones, biomes and vegetation belts.

In Year 5, you learned about trade and natural resources.



How this connects with future learning

Throughout Year 6 will apply your data analysis skills to your scientific enquiries.

In Year 7 you will learn In Year 7 you will apply about the interdependence of trade relationships across the world

your analysis skills to more regions of the world.

Relationships

This is your Year 6 Personal, Social, Health, Economic Education

Knowledge Organiser for Autumn I - Families and

Key Vocabulary

conflict

A **conflict** is a serious disagreement about something.

If two people or groups are in conflict, they have had a serious disagreement or argument and have not yet reached agreement.

Conflict is a normal part of life. Conflicts are usually caused by a difference of opinion and can be resolved by those involved sharing their feelings and reaching a mutual understanding.

grief Grief is a feeling of sadness experienced after

someone's death or after separation from them.

Grief is a process we go through when someone dies or we no longer see them for another reason.

Grief is different for everyone and we might need support from other people to help us deal with

it.

Identity is how you define who you are and how you fit into the world.

identity

Identify can mean different To solve a problem, you things to different people.

Your identity might include: from the other person's where you live, where you were born, gender, race, ethnicity, hobbies, religion, beliefs and physical characteristics.



resolve To **resolve** is to find an

answer or solution to a problem.

need to listen respectfully to each other; see things perspective and try to understand why the other person would think or feel this way. You might need to reach a compromise by finding a middle ground between ideas. You should never compromise on vour physical boundaries.

respect

Respect means being thoughtful and polite towards other people, or admiring someone because of their qualities of what they have achieved.

Respect is an important part of relationships and we need to show others respect if we want them to respect us.

Sometimes people might lose your respect but this can be returned if they change their behaviours.

stereotyping

Stereotyping means to believe unfairly that all people or things with a particular characteristic are the same.

Stereotyping can happen when people have limited information about a person or group of people. They make assumptions about others based on their appearance and actions without know them. This can lead to making unfair and incorrect judgements.

Stereotypes can be challenged.

How this connects with previous learning

In Year 4, you understood that vour behaviour can have an impact on others. You explored the responsibility of bystanders to help stop unkindness and bullying. You understood what physical boundaries are.

In Year 5, you explored the concept of marriage. You beaun to understand self-respect. You explored different stereotypes and how they can lead to discrimination.



How this connects with future learning

Later this year, you will learn about human rights and recognise prejudice and discrimination and how it can be challenged. You will learn about how to identify and respond safely to difficult situations.

In KS3, you will recognise the positive features of safe family relationships. You will look at all family types and explore how safe family relationships overcome disaareements. difficulties and strain.

In KS3, you will explore the legal rights, responsibilities and protections that different long-term commitments have, and understand that forced marriage is illegal. You will also explore the roles. responsibilities and challendes of parenting.

This is your Year 6 Physical Education Knowledge Organiser for Autumn I – Football

Key Vocabulary

covering	tactics	tracking	defensive	supporting	fair Play
To provide support to a teammate who is marking an opponent.	This refers to the strategies and plans used by a team to achieve their goals.	To follow an opposing player's movement and position of the field, in order to anticipate their actions and prevent them from gaining an advantage.	Play that is intended to prevent your opponent from scoring goals	This refers to the players ability to provide assistance to their teammate during a match. Supporting allows players to work together more effectively.	Refers to the principles of sportsmanship and ethical behaviour in sports. This includes treating opponents with respect and following the rules of the game.
The attacker dribbled past the first defender however the second defender was covering him and made the tackle just after.	The team was not following their managers tactics and lost the game	The midfielder made a run into the box to score but the defender was tracking him so he didn't receive the ball	The winning team was 2-0 up so they went into a defensive shape to protect their lead.	The midfielder had the ball at his feet, his other teammates made supporting runs so he could pass to them.	Fair play is important because it promotes healthy competition and helps to ensure that all players have a positive and enjoyable experience.
How this connects wit	th previous learning	~	How t	his connects with future learr	ning

How this connects with previous learning

In year 4 you learned how to dribble showing good control and progress.

In year 5 you learned front and goal side marking techniques.



In year 7 you will learn how to play by all rules used in professional game

In year 7 you will learn how to pass the ball successfully in a competitive situation.

In year 7 you will learn to use tactics successfully in game situations.

This is your Year 6 Physical Education Knowledge Organiser for Autumn I – Handball								
Key Vocabulary								
counter attack	jump shot	screening	dribbling	skill selection	offensive play			
A counter-attack is a fast and direct attack that occurs from a moment of transition	This is an effective shooting technique in netball which requires the shooter to jump and shoot while they are in mid air.	This is when an offensive player stands beside or behind a defender in order to free a teammate to either shoot a pass or drive in to score	The action of a player bouncing the ball and catching it while moving forwards to attack the goal.	Is an athlete's ability to choose and perform the proper techniques at the right time, successfully, regularly, and with minimal effort	The action of attacking or engaging an opposing team with the objective of scoring points or goals.			
A Counter-attack consist of minimal passes. They aim to create a goal-scoring opportunity before the opposition can recover their defensive shape.	The jump shot is thrown with power and speed downward into the opponent's goal. The angle and the steepness of the ball's trajectory make it hard for the opponent.	Screening is a great offensive move used to create space for the player in possession of the ball.	If a player takes more than three steps without dribbling (bouncing the ball) or holds the ball for more than 3 seconds without bouncing, shooting or passing then that is deemed 'travelling' and possession is lost.	The player chooses their skill selection for the task. They then perform this with the correct technique and with minimal effort.	This is when the team that has possession of the ball attack the oppositions area using offensive play with the intent to score. This is fast paced in order to prevent the defending team to recover and gain back possession.			
How this connects wit	h previous learning		How	this connects with future lear	ning			
In year 4 you learned how to pass and move with the	In year 5 you learned Increase power and	= - 2 + 3	In year 7 you will be looking at different	In year 7 you will be learning to develop your	In year 8 you will demonstrate tactical			

to pass and move with the Increase power and ball to set up attacks.

strength of passes, moving the ball over longer distances.



looking at different defence tactics. You will also be learning the refereeing signals.

shooting technique and

game situation.

then apply this skill into a

demonstrate tactical awareness and respond to changing situations by refining skills. 9

This is your Year 6 Science Knowledge Organiser for Autumn I – Classification

Scientific Enguiry

identifying and classifyina

Identifying means knowing what something is and naming it. Classifying means grouping things together if they have something in common. We will use information about the characteristics of an unknown animal or plant to assign it to a group.

researching

We will research using secondary sources to learn about the formal classification system devised by Carl example, amphibians are Linnaeus and why it is important. We will also use secondary sources to research the characteristics of animals that belong to a group.

Working Scientifically

Asking scientific auestions Plannina an enquiry **Observing** closely Measuring (taking measurements) Gathering and recording results

Presenting results **Interpreting** results Concluding (drawing conclusions) Predicting **Evaluating** an enquiry

vertebrate

Vertebrates are animals

divided into five animal

groups: fish, amphibians;

mammals. Each group has

cold-blooded, have lungs

and lay eggs. When adult,

they can live in water and

warm-blooded with hair or

fur. They give birth to live

young. Reptiles have dry,

soft-shelled eggs on land.

scaly skin that lay

on land. Mammals are

with a backbone.

reptiles, birds and

Vertebrates can be

00 00

invertebrate

microorganism

Subject Specific Vocabulary

flowering plants

non-flowering plants

Invertebrates are animals Living things can be without a backbone. Invertebrates can be divided into a number of groups, including insects, spiders, snails and worms. Insects have bodies in 3 common characteristics. For sections with a hard outer casina. 6 leas and 2 sets of wings.



They have 2 body parts, 8 legs, 6 or 8 eyes and spinnerets on their abdomens that produce silk.

grouped according to characteristics. Plants and animals are two main groups but there are other livings things such as microorganisms . Microorganisms are living things that are too small to be seen with the naked eye. They are normally viewed using a microscope. Viruses, bacteria and yeast as well as fungi: toadstools and mushrooms are the main

Flowering plants can make their own food whereas animals cannot. Plants can generally be divided into two main groups: flowering plants and non-flowering plants. **Flowering plants** produce seeds, fruits and flowers in order to reproduce. Examples of

potatoes.

flowering plants are: sunflowers, orchids, lavender, oak trees and ferns.

Non-flowering plants are those that do not ever produce flowers. Like flowering plants, they make their own food. They can be divided into two main groups - those that reproduce with spores and those that reproduce with seeds. Non-flowering plants that produce

spores include mosses and Non-flowering



plants that produce seeds include conifers such as pines and firs.



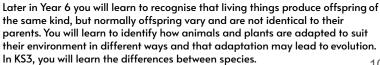
Things you learnt in previous topics

In Year 4 you recognised that living things can be grouped in a variety of ways. You explored and used classification keys to help group, identify and name a variety of living things in my local and wider environment.

In Year 5 you described the differences in the life cycles of a mammal, an amphibian, an insect and a bird. You described the life process of reproduction in some plants and animals.



How this connects with future learning



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Saludos Greetings		Year 6 Spanish Knowledge Organiser Todo sobre mí			Sentimientos Feelings	
Buenos días Good morning	DTo ack and	rning intentions answer basic questions elf.		Preguntas Questions	Estoy bien / mal	
	Buenas tardes		20	8	feliz / triste	
Good afternoon	use them i	answer Wh- questions.	¿Cómo te ¿Cómo llamas?	¿Cuándo es tu ¿Cuántos cumpleaños?	hambrient <u>o</u>	
Buenas noches Good night	To write an myself.	introduction about	estás? Me Estoy llamo	años tienes? Mi cumpleaños Tengo es el de	cansad <u>o</u>	
				años	aburrid <u>o</u>	
		ímeros umbers			eguntas questions	
1 uno 1	l on <u>ce</u>	21 veint iuno	31 treinta y uno	WHAT?		
2 dos 1	2 do <u>ce</u>	22 veintidos	32 treinta y dos	\mathbf{T}		
3 tres 1	3 tre <u>ce</u>	23 veint itres			uándo Quién/Quiénes When Who	
4 cuatro 1	4 cator <u>ce</u>	24 veint icuatro	40 cuarenta	-ll-l-l-	× - 16	
5 cinco 1	· —		50 cincuenta	HÓW?	🤒 🏋	
6 seis 1			60 sesenta		co/a/os/as Por qué	
7 siete 1	7 die cisiete		70 setenta	How n	nuch/many Why	
8 ocho 1			80 ochenta			
9 nueve 1			90 noventa	Dónde	Cuál porque	
10 diez 2) veint e	30 treinta :	LOO cien	Where	Which because 11	

At New Wave Federation, we demonstrate...

Collaboration

Creativity

Focus

Kindness

Responsibility

new wave federation