



Knowledge Organiser Booklet

Year 6

Summer 2



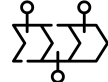




Name		Class	
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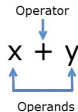


Use your knowledge organisers to help you remember more.

	Test Yourself!	Only Connect! 	Memory Cards 	Order, Order! 	Phone a Friend! 	Picture 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 information on the knowledge organiser and write down everything that you remember.	Challenge yourself by covering or hiding the knowledge organiser, using what you can recall.	On the other side of the card, write the answer to your questions. You could add pictures to your cards.	Check these with a friend or family member, using data on your knowledge organiser, add more detail.	Get them to test you by asking different questions about the information on your knowledge organiser.	Using the information you remember, draw pictures or diagrams to represent words.
3	Check your notes! Correct your mistakes and add anything that you might have missed out.	Check what you have added to your mind map by using your knowledge organiser to correct any mistakes.	Ask a friend or family member to ask you the questions you created or to ask you new questions.	Challenge yourself by adding information you recall from previous topics which are related.	Write your own sentences using the key vocabulary to replace those on the knowledge organiser.	Showing your diagrams to friends or family, ask them to guess which word you have represented.

This is your Year 6 **Computing** Knowledge Organiser for Summer 2. Sensing Movement

Tier 2 Vocabulary

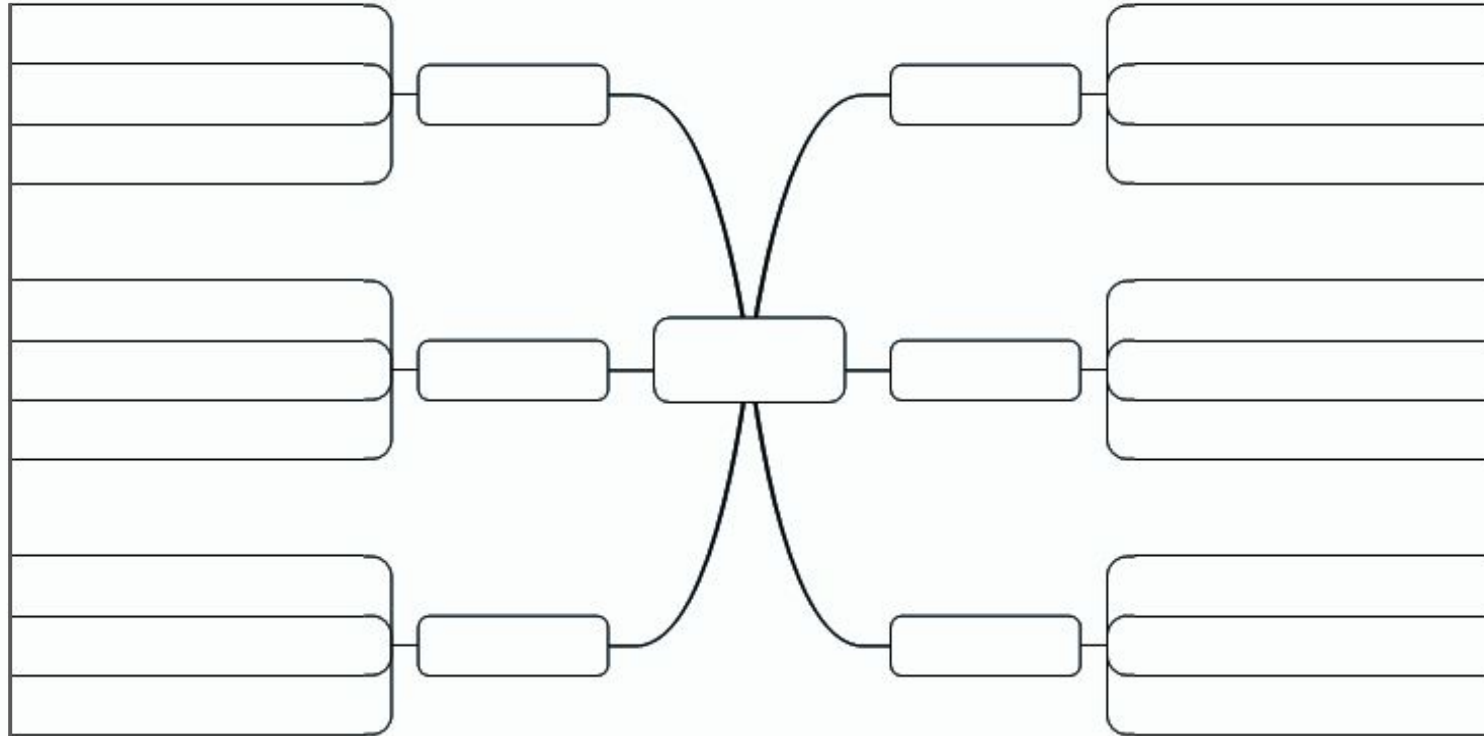
Key Vocabulary

process	variable	accelerometer	operands	sensors	now if, then, else
A series of actions or steps taken in order to achieve a particular end.	Something (often a number) that can be changed or adapted.	A device that measures the vibration, or acceleration of motion of a structure.	The quantity on which an operation is to be done.	A sensor is a device that detects and responds to some type of input from the physical environment.	Programming language statement that compares two or more sets of data and tests the results.
Fundamental steps to programming are input, process and output in order for a code to run.	A named piece of data (often a number or text) stored in a computer's memory, which can be accessed and changed by a computer program.	When detected, changes are translated into signals which changes the outcome of a program.	Specifically, which data is to be manipulated or operated on in order to affect the outcome of a program.	Sensors are input devices that record data about the physical environment around it.	If the results are true, the THEN instructions are taken; if not, the ELSE instructions are taken.
We need to process applications when families want to join the school.	During this unit, you will be asked to change the value of a variable using selection.	Using an accelerometer you will be able to change how a programmable device interacts with the world.	You will be using operands in selection to determine the flow of your program.	You could design a step counter using sensors for the micro:bit.	You will apply your knowledge of these statements to create a program that features selection influenced by a random number.
You will be inputting, processing and outputting information so that a device can run a program.					
How this connects with previous learning			How this connects with future learning		
In Year 4, you learnt about repetition and how to use loops. In Year 3, you learnt about sequencing codes to ensure a program ran in the correct order.	In Year 5, you learnt about selection through the use of a Crumble controller where you learned to join various parts together in order to run a program.	Earlier in Year 6, you learnt about variables and how you could modify them in real-world examples.	In KS3, you will continue to improve your programming skills through the concepts of sequencing, variables , selection, and count-controlled iteration. New concepts will be creating your own subroutines, developing an understanding of composition and creating lists in order to problem solve.	Some jobs that require these programming skills and concepts are: software engineer, data analyst, web design, video game engineer and many more.	

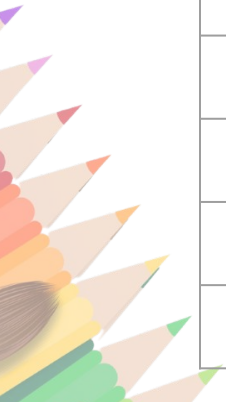
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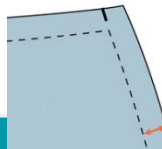



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This is your Year 6 Design Technology Knowledge Organiser for Summer 2. Combining Fabric Shapes

DT Themes		Tier 2	Key Vocabulary			
textiles	innovative	mock-up	seam	seam allowance	reinforce	wadding
Types of cloth or fabric.	Something new and original.	A model built for display, study or testing.	A line of stitches which join two pieces of cloth together.	Extra fabric allowed for joining together.	To add strength to or increase the effect of something	Soft, thick material used to line garments or pack fragile items.
Our clothes are made from different textiles .	The wheel was an innovative product because it made it much easier to transport items or people quickly.	A mock-up can help us identify any issues with a product and make improvements.	Products will sometimes come apart at the seam .	In domestic patterns, the seam allowance is usually 15mm.	It is important to reinforce seams that are stretched a lot to ensure that the garment can maintain its shape.	Wadding can be used when making blankets enabling them to keep people warm.
Products can be made from one textile or a range of different textiles .	Mobile phones were an innovative product as they allowed people to be contacted outside of the home.	When producing a large product, the mock-up will often be smaller.	We will create seams when joining two pieces of fabric together.	We will include a seam allowance to our patterns to ensure our finished cases can hold our chosen item.	We will identify which seams in our product need reinforcing .	We will be using wadding to help keep the contents of our case safe and protected.
We will use textiles when creating a case for a chosen item.	Innovation enables us to solve new or existing problems.	We will use paper to create a mock-up of our cases so that we can identify any issues.				
How this connects with previous learning						
In Year 1, you designed, made and evaluated a fabric doll.	In Year 2, you designed, made and evaluated a simple bag.	In Year 4, you designed, made and evaluated a pouch.	How this connects with future learning			
			In KS3, you will use research and exploration to identify and understand the users needs.	In KS3, you will identify and solve your own design problems.	In KS3, you will investigate new and emerging technologies.	

To help you remember and recall key information, you can make your own notes about design technology here.

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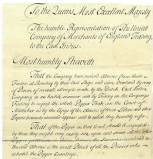


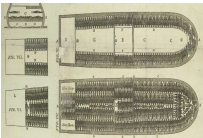


To help you remember and recall key information, you can make your own notes about design technology **here**.



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This is your Year 6 History Knowledge Organiser for Summer 2. British Empire

Historical Themes		Tier 2	Key Vocabulary			
migration	empire	enquiry	colony	indigenous	slave trade	abolish
The process of moving from one place to another.	A group of nations that are all ruled by the same leaders.	The process of seeking information.	A colony is a country or an area that is governed (ruled) by people from another, more powerful, country.	Indigenous people or things belong to the country in which they are found.	The slave trade is the buying and selling of slaves , especially Black Africans, from the 16th to the 19th centuries.	If someone in authority abolishes a system or practice, they formally put an end to it.
In Year 5 you learnt that the Vikings migrated to the British Isles in AD 793 and stayed until AD 1066.	In Year 5 you learnt that The Viking Empire spread from modern day Iceland to parts of what we call Russia.	You may have looked at different sources of information about Islamic Civilisation to enquire about why they really valued education.	England, in what is now Britain, wanted more land overseas where it could build new communities, known as colonies .	Britain searched for 'undiscovered' lands to profit from, the lands they 'settled' had already been inhabited by indigenous people.	The transatlantic slave trade was the largest forced migration in history.	In 1780s London, Nigerian Olaudah Equiano told of his experienced as an enslaved person and fought for abolition .
The British migrated to the many countries around the world to trade goods like metals, sugar, spices, textiles, tea and tobacco.	The British Empire expanded due to a desire for power, a need for resources, to explore and to spread religion.	British colonialists who lived in other countries wrote to the reigning monarch to enquire about how to protect things that the British were trading.	Colonies also offered wealthy Englishmen money making opportunities plus provided England's poor and unemployed with jobs and places to live.	British 'settlers' pushed out indigenous people, leading to large scale decimation of heritage, art, culture, religion and language of indigenous communities.	From 1500 to 1800, around 12-15 million people were taken by force from Africa to be used as enslaved labour in North and South America.	Granville Sharp and William Wilberforce MP led changes to public opinion until slavery was abolished in law in Slavery Abolition Act of 1833.
						
Things you learnt in previous topics			How this connects with future learning			
The Roman Empire expanded to Britain in AD 43. Until AD 410 Romans migrated here.	Anglo-Saxons migrated to Britain in larger numbers after the Romans left Britain.	Migrants have come to the UK over the last 100 years from the 'windrush generation', Turkey etc.			In KS3 you will enquire about political power in the British Empire .	You will also consider the development of Church, state and society in Medieval Britain.
			You will examine the impact through time of the migration of people to, from and within the British Isles.			

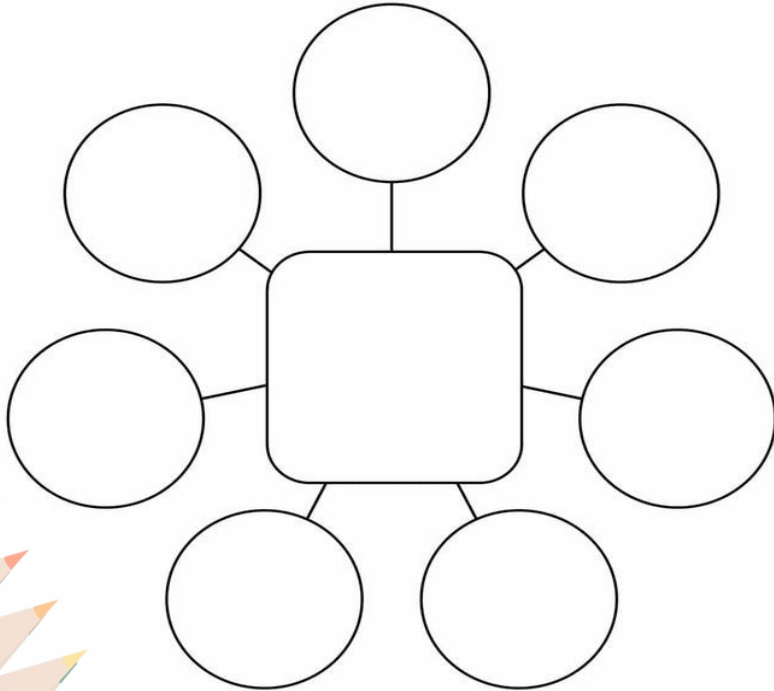


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To help you remember and recall key information, you can make your own notes about **history** here.





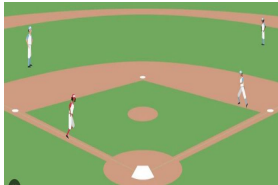
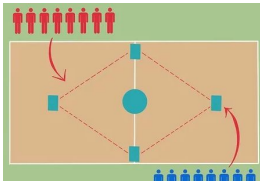
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This is your Year 6 **Physical Education** Knowledge Organiser for Summer 2. Rounders

Key Vocabulary

defensive	offensive	predict	blocking	offside	base
The action of preventing the opposition from scoring points.	The action of attacking or engaging the opposing team with the objective of scoring points.	The action of making a decision based on what you think is going to happen in the future.	The action in which the defending player (fielder) blocks the path of the ball.	Offside is a rule in certain team sports that controls the positioning of players.	These are four posts which are laid out in a diamond shape on the field.
Defending in rounders involves the fielding team trying to limit the amount of points scored by the batting team.	The offensive team in rounders is the batting team whose aim is to score as many points as possible.	By looking at the batter's swing action, it gives fielders a better chance of predicting the direction in which the ball will travel.	In order to block the ball, fielders position themselves in its path before hitting the base.	There is no offside rule in rounders so the players are free to move in any direction.	Once a ball has been hit, the batter must try to run around as many bases as possible.
					

How this connects with previous learning

In Year 4 you learned how to identify different roles in rounders.

In Year 5 you will learn to link a range of skills in both attacking and defensive plays.



How this connects with future learning

In Year 7 you will learn to analyse your teams performance to suggest ways of improving.

In Year 7 you will learn to accurately replicate the long barrier and use it effectively in a game.

In Year 7 you will learn how to outwit an opponent and understand the importance of ball placement in relation to the fielders positioning.

To help you remember and recall key information, you can make your own notes about physical education [here](#).

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This is your Year 6 **Physical Education** Knowledge Organiser for Summer 2. Hockey

Key Vocabulary

free hit	fair play	flick	obstruction	tackle	ball control
<p>A free hit is awarded when the defending team make a foul on the attacking team.</p> <p>A free hit must be taken in the position where the violation occurred.</p> 	<p>Fair play is when players and athletes abide by the rules and laws of the competition.</p> <p>Fair play involves competing in good spirit and encourages respect, generosity and friendship.</p> 	<p>A flick is a movement in which the ball is passed quickly to another player by flicking it out of their hand.</p> <p>A flick is most commonly used during a penalty shot and when trying to get the ball over an opponent's stick.</p> 	<p>The attempt to run in front of or block an opponent to stop them from playing the ball.</p> <p>Players must not obstruct a player who is attempting to play the ball.</p> 	<p>A tackle is a maneuver made by a defending player to dispossess an attacking player.</p> <p>When tackling, defenders can only make contact with the ball and not the player or their hockey stick.</p> 	<p>The way in which the attacking player dribbles the ball when they are in possession.</p> <p>Ball control is important for dribbling past opponents and using passing skills effectively.</p> 
How this connects with previous learning			How this connects with future learning		
In year 4 you learned how to consistently perform basic hockey skills such as dribbling and push pass.	In year 5 you learned how to play effectively in attacking and defensive positions.		In year 7 you will work in small teams to choose and put into practice tactics for attacking and defending.	In year 7 you will learn to recognise and explain the importance of preparation for games.	In year 7 you will learn to use space and understand the importance of width when attacking.

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This is your Year 6 Science Knowledge Organiser for Summer 2. The Circulatory System

Scientific Enquiry



comparative & fair testing



Comparative testing means testing objects to rank them. **Fair tests** are enquiries that observe or measure the impact of changing one variable when all others are kept the same. We will test the effect of different activities on pulse rate and how long it takes for a heart rate to return to its resting rate after different types of activity and exercise.

pattern seeking



Pattern seeking means looking for links in variables and results. We will explore which groups of people may have higher or lower resting heart rates.

researching



We will **research using secondary sources** the positive and negative effects of drugs such as tobacco and paracetamol and the benefits of a healthy diet and exercise.

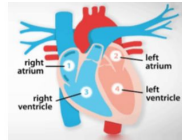
Working Scientifically

Asking scientific questions
Planning an enquiry
Observing closely
Taking measurements
Gathering and recording results

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

heart

The **heart** is the organ that pumps blood through the body. The **heart** is made of very strong muscle.



pulse

The heart pumps blood by squeezing and relaxing in a regular rhythm. This can be felt as a **pulse**. An average person's heartbeat beats 60-100 times a minute.



blood

Blood transports and drops off oxygen around our bodies and picks up carbon dioxide.

oxygen

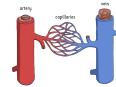
Oxygen is a gas that is naturally present in the air and is inhaled by humans.

carbon dioxide

Carbon dioxide is a gas that is naturally present in the air and is exhaled by humans.

blood vessels

Blood vessels are a series of tubes in your body that move blood to and from the heart.

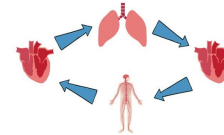


circulatory system

The heart pumps blood in the blood vessels around to the lungs. Oxygen goes into the blood and carbon dioxide is removed. The blood goes back to the heart and is then pumped around the body. Nutrients, water and oxygen are transported in the blood to the muscles and other parts of the body where they are needed. As they are used, they produce carbon dioxide and other waste products. Carbon dioxide is carried by the blood back to the heart and then the cycle starts again as it is transported back to the lungs to be removed from the body. This is the **human circulatory system**.



The journey of blood around the body:



lifestyle

Lifestyle is the way in which a person lives. Diet, exercise, drugs and lifestyle have an impact on the way our bodies function. They can affect how well our heart and lungs work, how likely we are to suffer from conditions such as diabetes, how clearly we think, and generally how fit and well we feel. Some conditions are caused by deficiencies in our diet e.g. lack of vitamins.



Things you learnt in previous topics

In Year 2, you described the importance for humans of exercise, eating the right amounts of different types of food and hygiene. In Year 3, you identified that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. You identified that humans and some other animals have skeletons and muscles for support, protection and movement. In Year 4, you described the simple functions of the basic parts of the digestive system in humans. You also identified the different types of teeth in humans and their simple functions.



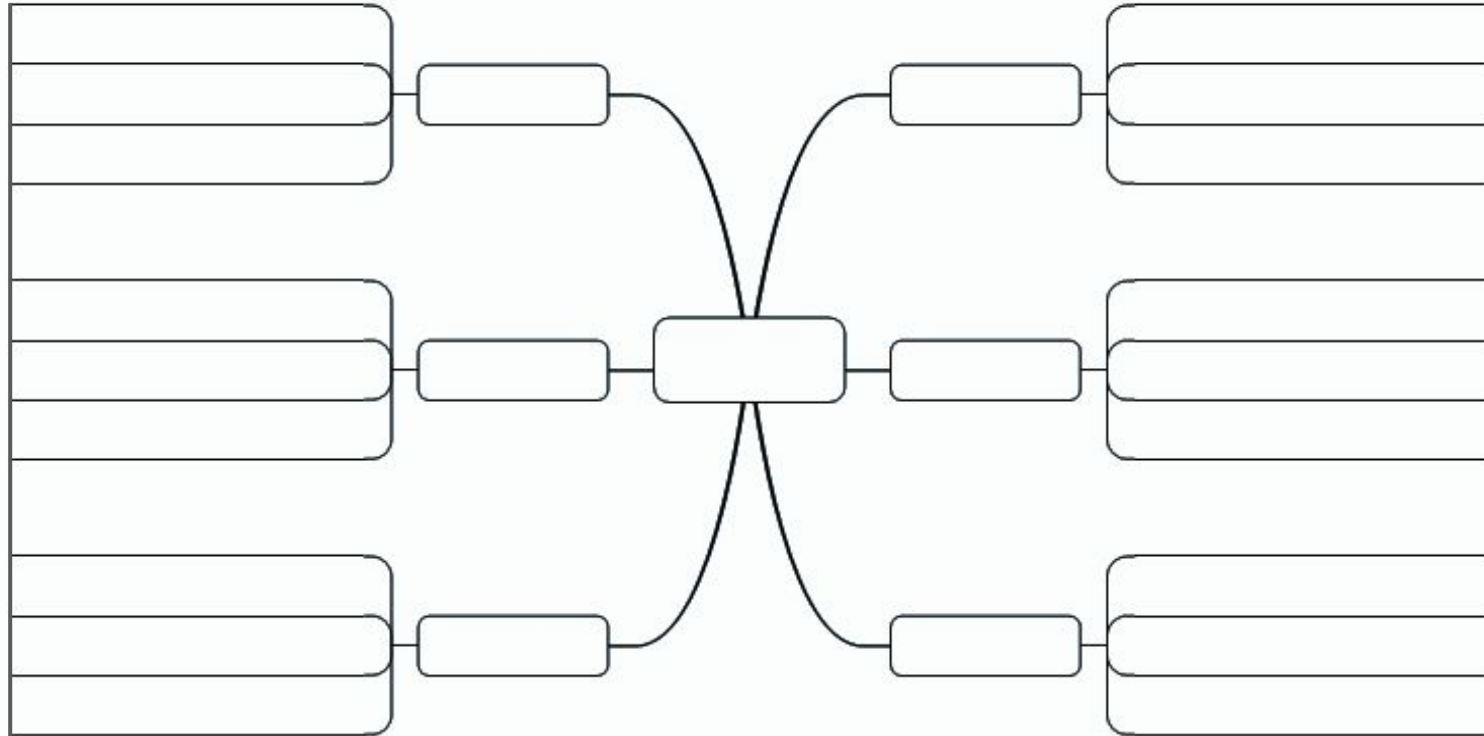
How this connects with future learning

In KS3, you will study: the consequences of imbalances in the diet, including obesity, starvation and deficiency diseases; the effects of recreational drugs on behaviour, health and life processes; the structure and functions of the gas exchange system in humans, including adaptations to function; the mechanism of breathing to move air in and out of the lungs; the impact of exercise, asthma and smoking on the human gas exchange system.

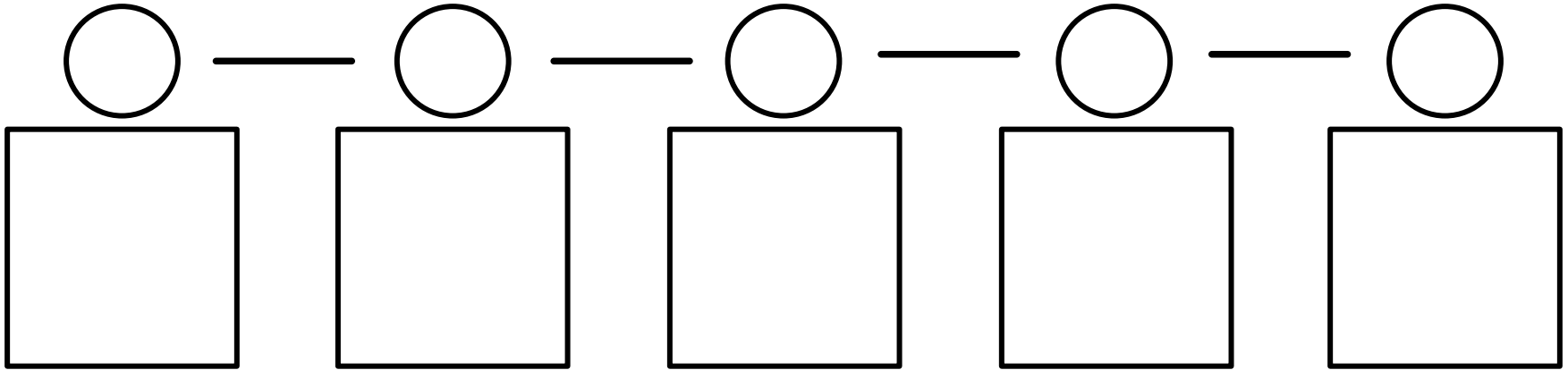
To help you remember and recall key information, you can make your own notes about **science** here.



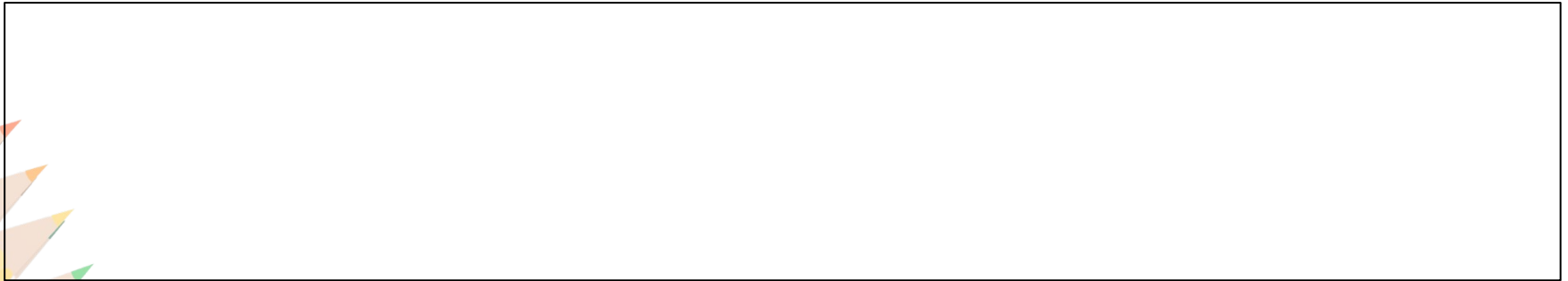
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A diagram consisting of five circles arranged in a horizontal row, connected by short horizontal lines. Each circle is positioned directly above a square box. The boxes are also arranged in a horizontal row and are empty, intended for taking notes.



A large, empty rectangular box spanning the width of the page, intended for taking notes.

Comida Food

	el queso
	el chorizo
	el gazpacho
	el pulpo
	el jamón
	la tarta
	la quesadilla
	la paella
	la ^s patatas brav <u>a</u> s
	la ^s croquet <u>a</u> s
	lo ^s churro <u>s</u>
	lo ^s calamar <u>e</u> s

Preposiciones Prepositions

con → with
sin → without

Year 6 Spanish Knowledge Organiser Mi Portfolio

qu - j - ce/ci - ñ - ll - z - y - h

¿Cómo estás? / ¿Qué tal?

¿Cómo te llamas?

¿Cuántos años tienes?

¿Cuál es tu ____ favorito?

Preguntas Questions

pero → but

y → and

porque →
because

¿Dónde te gusta ir?

¿Qué comida te gusta?

¿Qué hora es?

Verbos Verbs

Quiero → I want

Quieres → you want

Quiere → he/she wants









comer → to eat

beber → to drink

querer → to want

Mis rutinas My routines

	desayun <u>a</u> r
	com <u>e</u> r
	cen <u>a</u> r
	levant <u>a</u> rse
	duch <u>a</u> rse
	dormir <u>s</u> e

Lugares Places

	la playa
	la montaña
	la *ciudad*
	el pueblo
	el campo
	el río
	el lago

Frases Sentences



ir al
ir a la + *lugar* + con + *compañía*
+ solo/sola

Me gusta
No me gusta + el
Me encanta + la + *comida*
Odio

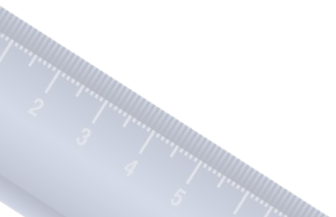
Me gusta
No me gusta + lo^s
Me encanta + la^s + *comidas*
Odio



Es la
Son la^s + *horas* + en punto
y media
y cuarto
menos cuarto

To help you remember and recall key information, you can make your own notes about **Spanish** here.

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To help you remember and recall key information, you can make your own notes about **Spanish** here.

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To help you remember and recall key information, you can make your own notes about **Spanish** here.



At New Wave Federation, we demonstrate...

The logo for New Wave Federation is a circular emblem with a blue border. Inside the circle, the words "new wave" are written in a black, sans-serif font, and "federation" is written below it in a teal, sans-serif font. A stylized, light blue wave graphic is positioned behind the text.

new wave
federation

Collaboration

Creativity

Focus

Kindness

Responsibility