

Topic Spanish – Yo En El Mundo Theme Creation Year Group 6



sound in:

· hablo



sound in:

 Navidad sound in:



utilizar

accents

Accents indicate the vowel is stressed. As seen in the words día and inglés.



This changes the 'n' to a 'ny' sound like in the English word 'onion'. As in the Spanish word español.



'H' is always silent in Spanish as seen in the word verb hablo. It is pronounced ablo. The vocabulary required for personal details:



Me llamo Carmen. Tengo trece años. Vivo en Ciudad de México en México. Hablo español.

I am called Carmen. I am thirteen years old. I live in Mexico City in Mexico. I speak Spanish.

More challenging and authentic language connected to celebrations, religions and the the protection of our planet to widen the range of language.

To accurately use the 1st person conjugation of high-frequency verbs.

me llamo

'I am called' from the verb 'Ilamarse' (to be called)

vivo

'I live' from the verb 'vivir' (to live) tengo

'I have' from the verb 'tener' (to have)

hablo

'I speak' from the verb 'hablar' (to speak)

voy

'I go' from the verb 'ir' (to go)

Prior Knowledge

- 1. I know how to describe myself and others physically in terms of height and character using the verb 'ser' (to be).
- 2. I know how to describe myself and others physically in terms of hair colour and type using the verb 'tener' (to have).
- 3. I know how to describe myself by eye colour using the verb 'tener' (to have).
- 4. I know how to describe a Viking's typical daily routine using time phrases.

Key Objectives

- 1. I will learn more about the 4 characters in the unit and the Hispanic world.
- 2. I will learn more about the different celebrations celebrated in the Hispanic world.
- 3. I will learn more about 2 different religious celebrations celebrated in the Hispanic world.
- 4. I will improve my cultural awareness of Madrid in Spain and Lima in Peru.
- 5. I will learn how the 4 characters are responsible global citizens by doing more to protect the planet.



Music: Composing and Performing a Leavers' Song Creation **Year Group** 6 Topic Theme Prior Knowledge A group of chords played in a particular order. progression • I can sing with control and confidence. I can name rhythms correctly. The combination of pitch and rhythm which forms a tune. I can copy rhythms accurately with a good sense of pulse. • I can show creativity in a finished musical product. Dynamics The volume of the music. Musical style: Pop music - Crescendo - Gradually increasing volume. Diminuendo - Gradually reducing volume. - Forte - To play loudly or strongly. - Piano - To play quietly or gently. A structure common in pop music, with two Verse - chorus repeatiung sections: the verse and the chorus. structure The verse usually has different lyrics on each Exploring pop songs about new beginnings. Pop music is short for 'popular music' and this style of music generally has a simple, memorable melody. repetition. Vocabulary The arrangement of the rhyming lines in a Rhyming poem or song. The words of a song. Backing A pre-recorded musical accompaniment. The speed of the music. track -Presto - To perform at a very fast tempo. Rhyming patterns -Allegro - To perform at a quick, lively tempo. -Largo - To perform slowly. -Accelerando - To perform with a gradual increase in speed. AABB - Lines I and 2 rhyme and lines 3 and 4 rhyme. -Ritardando - To perform with a gradual decrease in speed. ABAB - Lines I and 3 rhyme and lines 2 and 4 rhyme. Adapting a piece of music that already exists. Usually so that it can be played by different ABBA - Lines I and 4 rhyme and lines 2 and 3 rhyme. instruments.

ABCB - Lines 2 and 4 rhyme and lines I and 3 rhyme.

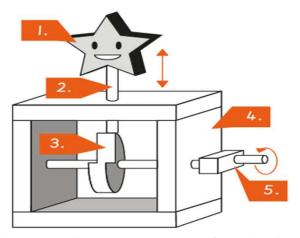
Two or more notes that are played at the same

time and work in harmony.

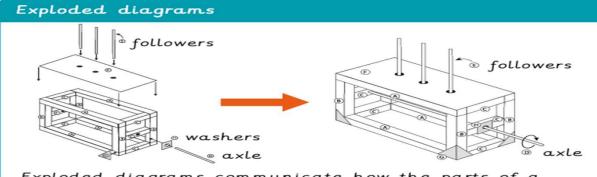


DT – Mechanical Systems: Automata Toys Theme Creation Year Group 6 Topic **Intended Outcomes** Prior Knowledge • To attempt a partial assembly of my toy using an exploded-diagram. • To produce a suitable plan for a product. • I can assemble the components necessary for all of my structures/mechanisms. • To develop a design idea with some descriptive notes. • To explore different cam profiles and choose three for my follower toppers with an explanation of • I can hide mechanical elements with more layers using spacers where needed. mv choice. I can use appropriate materials. To create neat, decorated follower toppers with some accuracy. · To measure and cut panels that fit with some inaccuracies to conceal the inner workings of the Automata toy components: automata. I. Character. • To decorate and finish the automata to meet the design criteria and brief. Follower.

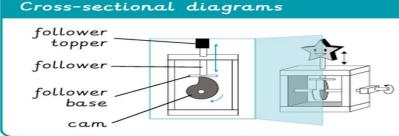
- 3. Cam.
- 4. Frame.
- 5. Axle attached to handle.



Automata toys use a mechanical system of cams, axles and followers to create movement in a character or object.



Exploded diagrams communicate how the parts of a product fit together. They help when making the product.



Cross-sectional diagrams help designers to communicate how a product works by showing the inside. Imagine a cut down the middle.



Topic Art and Design: Craft and Design – Photo Opportunity Theme Creation Year Group 6

Prior Knowledge

Formal Elements

- I know that shapes can be used to place the key elements in a composition.
- I know that lines can be used by artists to control what the viewer looks at within a composition.

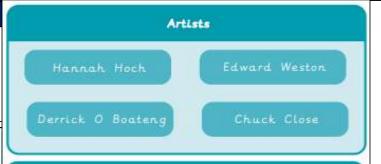
Making Skills

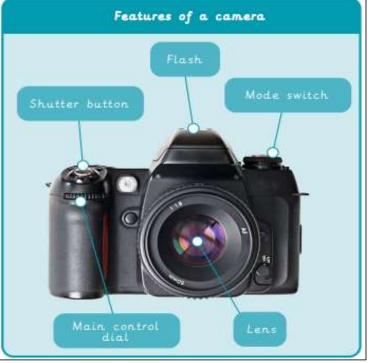
- I know how to use sketchbooks to research and present information about an artist.

Arrangement	The composition of visual elements	
Digital	Art made using electronic devices and computers	
Layout	The arrangement of different elements within a given space	
Macro	Very close-up photography, usually of very small subjects that are hard to see without using a magnifying tool	
Monochrome	The use of one colour	
Photography	The process of producing an image using a device that captures light	
Photomontage	A collage of photographs that are arranged or modified	
Photorealism	A drawing or painting so detailed it looks like a photo	
Prop	Objects that are in photographs to enhance a scene	
Saturation The intensity or strength of a colour		

The difference between using a normal lens and a macro lens setting.









Topic

Ridgeway Farm CE Academy – Knowledge Organiser

Art and Design: Craft and Design – Photo Opportunity

Theme

Creation

Year Group

6





Topic Computing - Binary Theme Creation Year Group 6

Prior Knowledge

- There are a range of software tools for creating quizzes to improve grammar skills.
- A quiz can be made to teach children how to interrogate a database.
- A range of questions can be used to produce a quiz linked to a curriculum area.

Key Learning

- To examine how whole numbers are used as the basis for representing all types of data in digital systems.
- To recognise that digital systems represent all types of data using number codes that ultimately are patterns of 1s and 0s (called binary digits, which is why they are called digital systems).
- To understand that binary represents numbers using 1s and 0s and these represent the on and off electrical states respectively in hardware and robotics.



Base 2
A number system in which there are two separate integers that can be used to make all numbers. This is also called the binary system.

Words used to describe numbers of bits and the computer memory space used:

> Nibble - 4 bits Byte - 8 bits.

Kilobyte (KB) - 1024 bytes Megabyte (MB) - 1024 KB Gigabyte (GB) - 1024 MB

Terabyte (TB) - 1024 GB

Key Vocabulary

A single 0 or 1 is called a bit. This word comes from 'Binary Digit'.

Digit
A single integer used to show a number.

Integer
Any whole number. This includes negative and positive numbers but not fractions or decimals.

Switch
An act of changing to or adopting one thing in place of another.

Base 10

A number system in which there are ten separate integers that can be used to make all numbers. This is also called the decimal and the denary system.

Transistor
A transistor is a tiny
switch that is activated
by the electronic signals
it receives.

Key Vocabulary

Machine code
The code that signals
to a computer which
transistors should be on
or off. Machine code is
written in binary.

Megabyte (MB) 1024 KB.

> Nibble 4 bits.

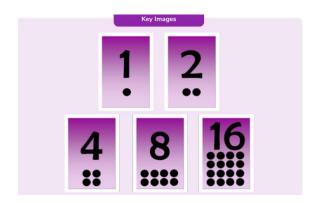
Switch
A component that can
be one of two states at
any time: on or off.

Terabyte (TB) 1024 GB

Transistor
A tiny switch that
is activated by the
electronic signals it
receives.

Variable

A variable is used in programming to keep track of things that can change while a program is running. A variable must have a name. The value of the variable is the information to store.



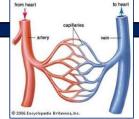


 Topic
 Science – Animals including Humans
 Theme
 Creation
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Key Question How do you keep your heart healthy?

What should I already know?

- The basic needs of animals for survival (water, food, air).
- The importance of exercise, hygiene and a balanced diet.
- Animals get nutrition from what they eat.
- Some animals have skeletons for support, protection and movement.
- Respiration is one of the seven life processes.



١	Key Vocabulary					
	arteries	a tube in your body that carries oxygenated blood from your heart to the rest of your body				
	atria	The top two chambers of the heart .				
	blood vessels	the narrow tubes through which your blood flows. Arteries, veins and capillaries are blood vessels .				
	capillaries	tiny blood vessels in your body				
	circulatory system	the system responsible for circulating blood through the body, that supplies nutrients and oxygen to the body and removes waste products such as carbon dioxide .				
	deoxygenated	blood that does not contain oxygen				
S	heart	the organ in your chest that pumps the blood around your body				
	lungs	Two organs inside your chest which fill with air when you breathe in. They oxygenate the blood and remove carbon dioxide from it.				
	nutrients	substances that help plants and animals to grow				
n	oxygenated	blood that contains oxygen				
	plasma	part of the blood that carries nutrients				
ss	red blood cells	part of the blood that carries oxygen and removes waste products				
	veins	A tube in your body that carries deoxygenated blood to your heart from the rest of your body.				
	ventricles	The bottom two chambers of the heart .				
d	white blood cells	part of the blood that fights viruses and bacteria				

	What will right by the end of the diffe.	4
What is the circulatory system?	The circulatory system is made of the heart, blood and the blood vessels. Arteries carry oxygenated blood from the heart to the rest of the body. Veins carry deoxygenated blood from the body to the heart. Nutrients, oxygen and carbon dioxide are exchanged via the capillaries.	c
Blood	There are 4 key components that make up blood: white blood cells (protect the body from infection), red blood cells (make up 40-45% of blood), plasma (transports other components	
	of blood around the body) and platelets. (seal a wound to a blood vessel). Blood delivers	l
	oxygen and nutrients to the cells of the body; it protects the body from infection and keeps the body at the right temperature.	
The Heart	The heart is composed of four chambers; the right atrium, the right ventricle, the left atrium and the left ventricle. How often your heart pumps is called your pulse.	ŀ
Choices that can	Some choices, such as smoking and drinking alcohol can be harmful to our health. Tobacco can cause short-term effects such as shortness of breath, difficulty sleeping and loss	ŀ
harm the circulatory	of taste and long-term effects such as lung disease, cancer and death Alcohol can cause short-term effects such as addiction and loss of control and long-term	
system	effects such as organ damage, cancer and death	1
Why is exercise so	Exercise can tone our muscles and reduce fat; increase fitness; make you feel physically and mentally healthier; strengthens the heart ; improves lung function; and improves skin.	
important?		1

What will I know by the end of the unit?



Topic RE Theme Creation Year Group 6	onic		Theme	Creation	Year Group	6	
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Key Question What do religions say to us when life gets hard?

	Key Vocabulary	
afterlife	(in some religions) life after death	
death	The end of the life of a person or organism.	
dharma	Is a person's duty – the right thing to do in any given situation.	
funeral	a ceremony or service held shortly after a person's death, usually including the person's burial or cremation	
Heaven	a place regarded in various religions as the abode of God (or the gods) and the angel	
judgement	The evaluation of evidence to make a decision.]
Karma	The law of cause and effect, the idea that every action we take will have consequences either positive or negative.	
Moksha	Escape from the cycle of being – life, death and rebirth that happen as a result of Karma.]
Paradise	(in some religions) heaven	
reincarnati on	being born into another life	
soul	A non-physical part of a human being that lives on after the death of the physical body.	
spirit	The non-physical part of a person which is the seat of emotions and character; the soul.	

What should I already know?

- Christians believe that people go to Heaven after death.
- When people die, God judges us according to the decisions made in life.
- Christians, Hindus and Muslims have different beliefs.

Key Knowledge

- Christianity, Hinduism and Islam teach about some form of life after death, which can bring comfort to people as they face suffering, or if they are bereaved.
- Some people believe that death is the end of life, and that there is no afterlife.
- Christians and Muslims believe that God makes a judgement of people according to their life choices and that, if the good outweighs the bad, they will go to Heaven or Paradise.
- Hindus believe in a cycle of life: birth, death and rebirth, with our actions in this life, our 'karma' effecting our future incarnations.
- Depending on people's beliefs, there are ceremonies that mark the end of life on Earth.
- Religions help people to live, even when times are tough. For example, through prayer, giving a sense of purpose, a guide to deciding what is right and wrong, membership of a community who care for each other, opportunities to celebrate together.

