

Year 5 Maths – Yearly Overview

Year 5/6 Fluency Time: Thursday and Fridays 11.45-12.15.

FOCUS: Thurs: KIRFS; Fri: Arithmetic

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Number: Place Value			/alue	Number: and Subtr	Addition raction (A)	Number: Multiplication and Division (A)			Number: Fractions (A)			Autumn Term Assessments/ Consolidation
								Yr. 5 S A1 = decimal number bonds to 1 and 10. 2 = Multiplication/division facts up to 12 x 12				
Spring	Number: Multiplication and Division (B) Number: Fractions (B) Number: Decimals and Percentages					Measurement: Perimeter and Area Statistic Consolidation Shumber Statistic Statistic Sumber Statistic			Spring Term Assessments/ Consolidation			
	On-goi	ng: Flashk	oacks (to	recap on	previous	learning)				Year 5: onversion of Sp 2: Primes	metric units to 50	
Summer	Geometry: Shape Geometry: Position and Direction Number: Decimals				nals	Number: Negative numbers	Measurement: Converting units	Measurement: Volume	Summer Term Assessments/ Consolidation			
	On-going: Flashbacks (to recap on previous learning) Year 5: KIRFS Su1/Su2: Recall, review, consolidate											

Year 6 Maths – Yearly Overview

Year 5/6 Fluency Time: Thursday and Fridays 11.45-12.15. FOCUS:

Thurs: KIRFS; Fri: SATs Arithmetic

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Number: Place Number: Addition, Subtraction, Value Multiplication and Division						Berny: Geom Geom Consolidat Consolidat Consolidat To mand Autumn te m assessme						
On-going: Flashbacks (to recap on previous learning) and times table practice						Yr. 6 KIRFS A1 = Multiplication/division facts up to 12 x 12 KIRFS A2 = Common factors					2 x 12	
Number: Decimals Number: Percentages Number: Algebra			: Algebra	Measurement : Converting Units	Consolidation/ Spring term				Consolidation/ Spring term assessments			
On-g	going: Fla		to recap o		us learnin	ıg) and	Year 6. KIRFS Sp1: Metric conversions KIRFS Sp 2: Primes to 20					
					Investigations (After SATS)			Consolidation				
On-g	On-going: Flashbacks (to recap on previous learning) and times table practice							KIR		r 6. res/roots to Factor pairs	144	

Year 5/6 Mixed Age Maths Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Number: Place Value Number: Four Operations					Number: Fractions					Consolidation/ Autumn term assessments		
On-going starters: Mon: Flashback 4; Tues: SATs Corner/KIRFS/I See Reasoning/I See Problem Solving; Wed: Times Tables; Thurs: SATs Based Retrieval: Fri: Problem Solving						Yr. 6 KIRFS A1 = Multiplication/division facts up to 12 x 12 KIRFS A2 = Common factors Yr. 5 KIRFS A1 = decimal numb bonds to 1 and 10. KIRFS A2 = Multiplication/division fact to 12 x 12			10.			
Spring	Year 5: Number: Fractions		Number: Decimals and		Yea Number:	Moacuroc		Statistics		Consolidation/ Autumn term assessments		
Spr	Yea Numbe	r 6: er: Ratio	Percentages		5	Yea Number	_	Perimeter, Area and Volume		- Statistics		Consol Autur asses:
		4;Tues: SATs		S/I See Reas	oning/I See P I: Fri: Probler		Year 6. KIRFS Sp1: Metric conversions KIRFS Sp 2: Primes to 20 KIRFS Sp 2: Primes to 20					
Summer	Geometry: Properties of Shape Geometry: Properties of Shape Geometry: Position and Direction Geometry: Position And Direction Year 5: Four Operations Consolidation Year 6: Revision & SATs				Investigations		Consolidation/ Summer term assessments					
Sur				Year 6: Investigations								
	On-going starters: Mon: Flashback 4;Tues: SATs Corner/KIRFS/I See Reasoning/I See Problem Solving: Wed: Times Tables: Thurs: SATs Based Retrieval: Fri: Problem Solving Year 6. KIRFS Su1: Squares/roots to 144 KIRFS Su2: Factor pairs consolidate											
Year !	Year 5/6 Fluency Time: Thursday and Fridays 11.45-12.15. FOCUS: Thurs: KIRFS; Fri: SATs Arithmetic											

Year 5/6 Cycle B – Spring Term – Milvertate

Motivational Core Texts: (Lots of visual texts

this term)









Main Genres:	Genre Success Criteria:							
Formal Letters: To invite and complain (The Teachers' Art Gallery)	Address of sender - top right & Address of recipient - top left Date under RECIPIENT address on the left Greeting on left, under date - Dear							
Journalism: To Recount (Banksy Rat)	Short, effective headline (play on words/alliteration etc.) Orientation (5 Ws) - hooks the reader Quotes (Direct and indirect) Past tense (except quotes) 3rd person Paragraphs Impersonal Passive voice Time connectives/ range of other appropriate connectives Inverted triangle: as the articles progresses, the details become less important Summary linking back to the opening							
Poetry Anthology: To Entertain	Sensory POSAAM Repetitive text (refrains) pattern in words / shape / rhythm Rhyme schemes (ABAB, AABB etc.) and assonance Oxymoron and enjambment	Various types in response to different art pieces including the sculptures of Andy Goldsworthy Types may include: haiku, cinquain, tanka, sonnet, ode, kenning and free verse. See genre SC document for key features.						
Narrative: To Entertain (Mystery stories based on Alma)	 Introduction, Build Up, Problem/Climax, Resolution, Reflection: characters/ author reflect on what has happened to them. Create vivid images by using POSAAM Interweave a balance of detailed action/description/dialogue to move the story forwards. A wide range of sentence structure, starters and punctuation. Clear paragraphs Write cohesively at length. Talk to the Reader 							
Balanced Arguments: To Discuss (Is Graffiti Art?) • Question for the title • Introduction explains what the argument is about • Statements for and against, with reasons to support them • Final paragraph sums up and may offer suggestions/a reasoned conclusion • Paragraphs beginning with varied openers • Mainly present tense including examples of the passive form • Modal verbs e.g. 'would', 'could', 'might' • Connectives which: introduce more points: 'furthermore'/give a balanced view: 'however'/draw to a conclusion: 'consequently' • Generalisers e.g., many, some • Quotes and statistics								

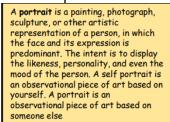
Milverton Primary School Knowledge Map [years 5&6 Spring Term Cycle B – Art – Milvertate]



Art Styles: Portraits









We will be looking at the work of the artist Picasso (1881-

Cubism is a style of art which shows objects, landscape and

people from different viewpoints simultaneously (at the

1973), in particular his cubist period.

same time, within the same work).

Pablo Picasso Weeping Woman 1937

Art Styles: Cubist Portraits



A painting or drawing of a large area of the natural world, for example mountains or

Art Styles: Landscapes

lields.









Portraits

Look at your self in the mirror.

Standard Facial Proportions:

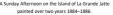
- *The eyes are halfway between the top of the head and the chin. *The bottom of the nose is halfway between
- the eyes and the chin. *The mouth is halfway between the nose and
- •The corners of the mouth line up with the
- centres of the eyes.
- *The top of the ears line up above the eyes, on the eyebrows.

•The bottom of the ears line up with the bottom of the nose.



Art Styles: Pointillism







Key Vocabulary	Definition			
Pointillism	style of painting that was developed in			
	France in the late 19th century in			
	which very small dots of colour are			
	used to build up the picture.			
Impressionism	a style in painting developed in France			
	in the late 19th century that uses			
	colour to show the effects of light on			
	things and to suggest atmosphere			
	rather than showing exact details			

Art Styles: Sculpture

Sculptures are 3D structures and can be made from anything! They often have a meaning behind them.



Nathan Sawaya is an American artist who builds custom three-dimensional sculptures and large-scale mosaics from popular everyday items and is best known for his work with standard LEGO building bricks





Art Styles: Graffiti

Banksy is a pseudonymous English graffiti artist, political activist, film director, and painter. His street art combines dark humour with graffiti executed in a distinctive stencilling technique. His works of political and social commentary have been featured on streets, walls, and bridges of cities throughout the world.

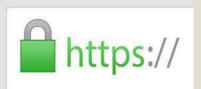


Y56 Computing – Cycle B, (Y6 Online Safety)



Key Vocabulary

Troy vocabalary								
Cyberbullying	When bullying occurs online, rather than in person, often through social media							
Stereotype	A widely believed but often over-simplified or limiting view of people							
Secure Website	A website with a 'lock' near the URL, to show that the website is secure / safe to use							
Privacy	Keeping your personal information private							
Reporting	Telling someone else, or people that can help, when you see something that isn't kind, or safe							
Discerning	Thinking carefully and using your knowledge to help decide whether websites are safe or reliable.							



The symbol for a secure website, found next to the URL.

Key Concept: Online Safety

Behaviour

Sometimes, people can behave differently online, compared to how they behave in person.

This can be upsetting – what can you do if you notice this?

Risk

Sometimes when you are online, you may need to share some of your data – for example, if you are filling out a form to join a club.

Be 'discerning' about the data you share - what is the risk involved?

Seeking Help and Reporting

If you experience, or notice online bullying taking place, you may need to seek help – find someone who can help make things better. Also, you may need to 'report' what you see, so that protections can be created to stop it happening again.

Personal Information

Your personal information should be kept private wherever possible – and you should always check with an adult before you share anything personal online.

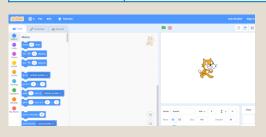
Speak Out: You can contact Childline on 0800 1111 if you need help with online bullying

Y56 Computing – Cycle B, (Scratch – Game Design)



Key Vocabulary

Algorithm	A set of instructions for a computer to follow, designed by humans			
Debugging	Finding mistakes in an algorithm, and correcting them			
Variable	Using 'if' or 'when' commands in your algorithm, so that it can adapt to different situations			
Repetition	Using 'loops' or 'repeats' to save time re- writing the same commands in your algorithm			
Scratch	Free, web-based games programming tool			
Trigger	Something separate from the algorithm, often 'plugged in' to the computer, that can tell an algorithm what to do – such as a mouse, or a sensor			



Scratch

Key Concept: Coding and Programming

Creating Algorithms

An algorithm sounds complicated, but really it's just a series of instructions for a computer to follow. A good algorithm will tell a computer exactly what to do, and exactly when to do it. Every time you use a computer, it is following hundreds or thousands of instructions – all designed by humans!

Debugging

Testing is an important part of programming. We need to know if our program does what we want it to do! If it isn't working, then we need to debug our program. Can you figure out which part of your algorithm isn't correct, and fix it?

Testing and Predicting

Predicting what an algorithm will do is an important skill – if you test your algorithm, and your prediction was correct, this can give you confidence.

External Triggers

An external trigger is something separate from the algorithm, that tells an algorithm what to do, or to change. For example, the click of a mouse, or the use of a light sensor, could 'trigger' the algorithm to change its course.

Enjoy programming and debugging using web-based software Scratch – visit scratch.mit.edu

Years 5&6 Geography, Spring – Contrasting Localities



Contrasting Localities

Using Maps

Maps are useful for many purposes, including:

- Finding your location
- Working out where to go
- Calculating distances
- Looking at land use

Maps can be used in paper form, or digitally.

Human Geography

Human geography looks at the impact that humans have on our planet.

- What do we build, and why?
- Where do we choose to live, and why?
- How might our towns and cities be different in the future?

Physical Geography

Physical geography is all about the natural processes that happen on planet earth – weather, land formations, rivers seas and oceans, biospheres and the climate.

Key vocabulary:							
County	For example, Warwickshire						
City	For example, Coventry						
Region	An area that has certain characteristics						
Country	A part of the world with its own boundaries, laws and government						
Locate	To find something accurately						
Grid reference	A numbered location on a map, e.g. (24, 56)						
Human	The impact humans have on earth						
Physical	Natural processes, e.g. weather						
Land use	What different areas of land are used for						
Climate	The weather coniditions over a long period						
Agriculture	Farming for crops and products e.g. wool						
Population	The number of people living in a defined area						

Milverton Primary School – Year 5 & 6 – Spring Cycle B Knowledge Organiser - Physical Education



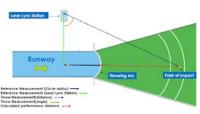


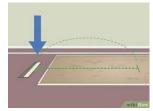
Indoor Athletics Invasion - Football

Key Vocabulary	
Indoor Athletics	Football
Start and Finish	Goal Kick, Kick off, Throw in
Sprint and Endurance	Foul, Free Kick, Penalty
Javelin and Shot Put	Football, Goal line, Penalty Area
Long Jump and High Jump	Dribbling, Pass, Control and Shoot
Measurement for running – time	Header
Measurement for throwing and jumping	Offside

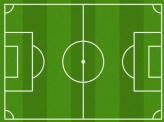
	Key Knowledge – Coaching Points							
S	Throwing			Running		Jumping		
or Athletics	 Stand sideways on with your throwing arm drawn back Do some little hops forwards to get some momentum Twist at the hips to get the most power Follow through with your throwing arm across your 			ents ask runners to go as fast as they stance events ask runners to pace the rting, listen carefully, react quickly and e short fast strides to start quickly	emselves d push off	When taking off drive the opposite knee and hips upwards to get more lift Try to time your run up to take off at the correct point Use your arms to help propel your body		
Indoor	body Make the angle of your throw go high and far – not too high or too flat to get the best distance						sured from the point closet to the jump ards after landing	
	Send & Receive Attack and D		efend	Moving	Scoring		Tactics and Rules	
Football	Pass to the receiver either to their feet or in front of them if they are moving Pass with the inside of the foot Draw back the leg, connect with the ball in the middle of the ball, follow through in the direction of the pass Control with the inside of the foot and push the ball just in front of your feet	Move up the pitch to go the goal to score Pass or run with the base up the pitch Move into free space to opponents goal Pass in front of players can run onto the pass Try to intercept passes attacking players Stand in front of an attacking ball and make it had to pass or shoot	all to move owards the s so they between acker with	Run when without the ball Run with the ball by doing small taps with the inside and outside of the foot to keep it moving Change direction by moving the ball in another direction When turning or changing direction make tight turns and quick movements away Use outside or inside hook to turn	opponen A goal is The goal the shot The goal hands to up Shoot by top of the	keeper may try to save keeper can use their save the ball and pick it kicking the ball with the e foot, aim low to the away from the goal	The game starts with a pass from the centre circle Pass and then move to a better position to get the ball back Don't foul by making illegal contact with your body The ball stays inside the lines A player is in an offside position if any part of the body is in the opponents' half and any part of body is nearer to the opponents' goal line than both the ball and the second-last opponent.	









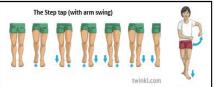


Milverton Primary School Knowledge Map [Years 5 & 6 – Dance – Spring Term]

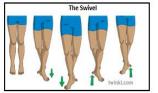
Vocabulary	1
Showcase	To perform a medley/range of different dance styles
Charleston	A type of jazz dance born in America in 1923
Jive	Otherwise known as 'lindyhop', jive is an energetic dance born in 1930s. Heavily influenced by rock n roll.
Rock step	A dance move performed in the jive
Swivel	A dance move performed in the Charleston
Birdie	A dance move performed in Irish Dancing
Scissor Kick	A dance move performed in Irish Dancing
Posture	The position in which someone holds their body whilst standing or sitting
Popping and locking	A dance move performed in breakdance
Top rock	A dance move performed in breakdance
Bhangra	A type of Indian folk dance
Unison	Complete a dance sequence as the same time as somebody else.
Canon	Complete a dance sequence one after other
Beat (8 Counts)	Counting the beat of the music and finding the 8th count
Routine	Combining a mixture of dance moves together

Charleston

Charleston Key dance moves









Breakdance

Break Dance Key moves







Bhangra

Bhangra/Bollywood dance









Jive Key dance moves







- Charleston was a dance born in America in 1923 and based around jazz. It was a lot more expressive than other traditional dances at the
- Jive was a dance born in 1934 and was heavily influenced by rock and roll. It can otherwise be known as the 'Lindyhop'. It is a very happy, boppy, energetic dance and requires lots of bouncing on the balls of your feet.
- Irish dancina is a dance born in Ireland and has influences from English country dancing- from 18th and 19th centuries. It is a type of folk dance. It is famous for intricate foot movements and straight upper body. It is often traditionally performed in
- **Break dance** was a dance originating in New York City during the late 1960s and early 70s. It incorporates a mixture of moves from martial arts and gymnastics. It has a unique culture and early styles of it were influenced by funk (James Brown).
- **Bollywood and bhangra.** Bhangra was a dance that formed together in its current style in 1940s. It was a type of Punjab (Indian) folk dance celebrated during the time of the harvest. Bollywood films originated in middle east and utilised elements of the bhangra dance within their films.

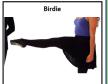
Irish Dance

Irish Dance Key moves











Milverton Primary School Knowledge Map - PSHE (Topical issues and Super Learning Skills)

Living in the Wider World: Debating Topical Issues - The Island

- research, discuss and debate topical issues, problems and events concerning health and wellbeing and offer their recommendations to appropriate people.
- resolve differences by looking at alternatives, seeing and respecting others' points of view, making decisions and explaining choices.
- think about the lives of people living in other places and people with different values and customs.







Democracy

Democracy is when a group of people have equal rights and the freedom to choose how they are treated, rather than when one person has all the power and makes all the decisions. It can also refer to the way in which we vote for the person or group we want to represent us

Individual Liberty

Individual liberty is when people have the freedom to choose their faith, beliefs, likes and dislikes which are outside Government control.

Rule of Law

Rule of Law means that all people and groups are ruled by the same laws which help to keep us all safe and happy.

Mutual respect for and tolerance of those with different faiths and beliefs and for those without faith

A fair, objective and permissive attitude to those whose faith and beliefs may differ from one's own.'

Key vocabulary: Topical issue something that concerns or relates to events that are happening at that time Well-being being comfortable, healthy, or happy Research study and investigation for the purpose of discovering and explaining new knowledge. Debate a discussion between two people or groups who disagree on an important subject. Resolve a solution or end to an argument or other conflict Values a person's or society's beliefs about good behaviour and what things are important. Customs a common way of doing things that many people do/have done for a long time.

Spring Super Learning Skills (SLS)

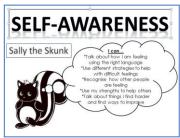
- name and explain and use the 6 Super Learning Skills.
- recognise my worth as an individual by identifying positive things about myself and my achievements, seeing my mistakes, making amends and setting personal goals.
- resolve differences by looking at alternatives, making decisions and explaining choices.

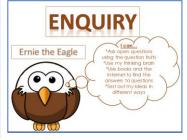
Key vocabulary:













Years 5&6 Science Spring Term



Evolution and Inheritance



Key Knowledge:

Offspring - Animals and plants produce offspring that are similar but not identical to them. Offspring often look like their parents because features are passed on.

<u>Variation</u> - In the same way that there is variation between parents and their offspring, you can see variation within any species, even plants.

<u>Adaptive Traits - Characteristics that are influenced by the environment the living things live in.</u> These adaptations can develop as a result of many things, such as food and climate.

<u>Inherited Traits</u> - Eye colour is an example of an inherited trait, also things like hair colour, the shape of your earlobes and whether or not you can smell certain flowers.

<u>Habitats - A good habitat should provide shelter, water, enough space and food.</u>

<u>Environments - There are many types of environment around the world. Polar regions, deserts, rainforests, oceans, rivers, and grasslands are all environments.</u>

<u>Fossils - Preserved remains</u>, or partial remains, of ancient animals and plants. Fossils let scientists know how plants and animals used to look millions of years ago giving proof that living things have evolved over time.

<u>Evolution -</u> The gradual process by which different kinds of living organism have developed from earlier forms over millions of years. Scientists have proof that living things are continuously evolving - even today!

<u>Natural Selection -</u> Fossils of giraffes from millions of years ago show that they used to have shorter necks. They have gradually evolved through natural

Living	Things	Hak	itat	Adaptive Traits
polar bear		arctic		Its white fur enables it to camouflage in the snow.
camel	and the second	desert	5	It has wide feet to make it easier to walk in the sand.
cactus	W	desert		It stores water in its stem.



Key vocabulary:	
Offspring	The young animal or plant that is produced by the reproduction of that species.
Inheritance	This is when characteristics are passed on to offspring from their parents.
Variation	The differences between individuals within a species.
Characteristic	The distinguishing features or qualities that are specific to a species.
Adaptation	An adaptation is a trait (or characteristic) changing to increase a living thing's chances of surviving and reproducing.
Habitat	Refers to a specific area or place in which particular animals and plants can live.
Environment	An environment contains many habitats and includes areas where there are both living and non-living things
Evolution	Adaptation over a very long time
Natural selection	The process where organisms that are better adapted to their environment tend to survive and produce more offspring.
Fossil	The remains or imprint of a prehistoric plant or animal, embedded in rock and preserved.
Adaptive traits	Genetic features that help a living thing to survive. inherited traits These are traits you get from your parents. Within a family, you will often see

Charles Darwin, an evolutionary scientist, studied different animal and plant species, which allowed him to see how adaptations could come about. His work on the finches was some of his most famous.



Years 5&6 Science Spring Term



Properties and Changing Materials

Key Knowledge:

Different materials are used for particular jobs based on their properties: electrical conductivity, flexibility, hardness, insulators, magnetism, solubility, thermal conductivity, transparency. For example, glass is used for windows because it is hard and transparent. Oven gloves are made from a thermal insulator to keep the heat from burning your hand.

Reversible changes

Mixing and dissolving solids and liquids together, can be reversed by:

- Sieving smaller materials are able to fall through the holes in the sieve, separating them from larger particles.
- Filtering The solid particles will get caught in the filter paper but the liquid will be able to get through.
- Evaporating The liquid changes into a gas, leaving the solid particles behind.

Irreversible changes

This often results in a new product being made from the old materials (reactants). For example:

- burning wood produces ash
- · mixing vinegar and milk produces casein plastic.

Dissolving

A solution is made when solid particles are mixed with liquid particles. Materials that will dissolve are known as soluble. Materials that won't dissolve are known as insoluble. A suspension is when the particles don't dissolve.

- Sugar is a soluble material.
- · Sand is an insoluble material.

States of matter









insulators.

Key vocabulary:

Material

Solids

Liquids

Gasas

Meltina

Freezing

Evaporating

Condensing

Conductor

Insulator

liquid

The solid melts.

The substance that something is made out of, e.g. wood, plastic, metal

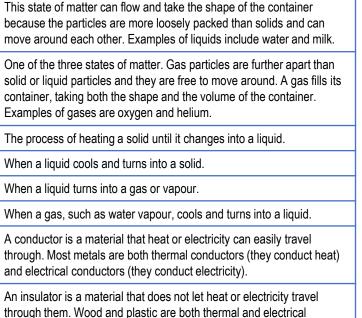
One of the three states of matter. Solid particles are very close

together, meaning solids, such as wood and glass, hold their shape.

The liquid freezes.

The gas condenses.

The liquid evaporates.





Changes of State



Years 5&6 RE Spring Term – Cycle B

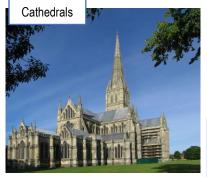


Is it better to express your beliefs in arts and architecture or in charity and generosity? Islam and Christianity – learn about why their holy buildings and works of art matter to them as expressions of devotion to God and worship, and about how they practice generosity and charity.

















Charities

Key facts - Islamic Art:

*Art in Islam is dominated by geometric designs usually with patterns, colour, texture and calligraphy. Islamic art is different because it is not just decorative but reminds the viewer of Allah (pbuh), the name Muslims give to their God. A lot of Islamic art is used for carpets, on buildings, especially mosques, as well as to hang on the wall.

*Islamic art is beautiful patterns and calligraphy but no human or animal forms







Key vocabulary:		
Spiritual	Relating to people's thoughts and beliefs, rather than to their bodies and physical surroundings	
Sacred	Something that is sacred is believed to be holy and to have a special connection with God.	
Charities	an organization which raises money in order to help people who are sick or very poor, or who have a disability	
Generosity	willingness in giving away one's money and time	
Art	paintings, sculpture, and other pictures or objects which are created for people to look at and admire or think deeply about.	
Believers	If you are a great believer in something, you think that it is good, right, or useful.	
Architecture	The architecture of a building is the style in which it is designed and constructed.	
Scriptures	Any book or body of writings, especially when regarded as sacred by a particular religious group	

Key facts – Christian Art

*Christian art is sacred art which uses themes and imagery from Christianity.

*Images of Jesus and narrative scenes from the Life of Christ are the most common subjects.

