# Year 6: How can we save our world? Geography Knowledge Mat

Subject Spe	cific Vocabulary	Hind Soler	Key Skills
biomes	Large areas of the world with specific climates, plants and animals (e.g., rainforest, desert)	Renewable Energy Sources	Use maps, atlases, globes and digital mapping to locate countries and
carbon footprint	The amount of carbon dioxide produced by a person, group or activity	Sive our Future Geothermal	<ul> <li>describe features studied.</li> <li>Identify the position and significance of latitude,</li> </ul>
climate change	Long-term change in Earth's temperature and weather patterns, mainly caused by humans	NORTH AMERICA  ATLANTIC  Tropse of Cueser  ACTIC OCEAN  ACTIC OCEAN  ACTIC OCEAN  Both Both Both Both Both Both Both Both	longitude, Equator, Northern & Southern Hemispheres, Tropics, Arctic/Antarctic Circle, Prime/Greenwich Meridian
ecosystem	A community of living things and their environment	PACIFIC OCEAN  O' Equator  SOUTH AMERICA  Transic Conscions  AFRICA  A	and time zones.
fossil fuels	Coal, oil and gas – energy sources that pollute when burned.	Tropic of Capricorn 30*  ATLANTIC OCEAN  AND	<ul> <li>Describe and understand key aspects of physical and human geography</li> </ul>
globalisation	How the world is becoming more connected through trade, travel and communication.	© Encyclopaeda Britannica, Inc.	Communicate     geographical information in     a variety of ways: maps,     numerical data, writing and
pollution	Harmful substances entering air, water or land	Enquiry questions	<ul><li>art.</li><li>Develop fieldwork skills:</li></ul>
renewable energy	Energy from sources that won't run out (wind, solar, hydro)	<ul><li>□ What are the 7 continents?</li><li>□ What are eco-systems and biomes?</li><li>□ What are the threats to the Amazon</li></ul>	collecting, analysing and presenting data about the environment.
sustainability	Using resources in a way that protects the planet for the future	Rainforest?  How does human activity affect different continents?  What is the impact of tourism in Africa?  What can we do?	

# Year 6 Science Knowledge Mat: Circulatory System

Subject Specific Vocabulary		Our famous scientist	I will be able to	
blood vessels	Blood vessels are a series of tubes inside your body. They move blood to and from your		answer	
drugs	heart.  A drug is a chemical that is not food and that affects your body. Some drugs are given to people by doctors to make them healthy.	State White State of the State	☐ How many times does the heart beat each day?	
atriums	The atriums are the two uppermost chambers of the heart. Blood is pushed from the atriums to the ventricles.		☐ How many gallons of blood does your heart pump each day?	
William Harvey	He was the first person to accurately describe the function of the heart and the circulation of blood around the body.		☐ How long does it take for the blood to complete an entire trip around your body?	
cardiovascular	The blood circulatory system (cardiovascular system) delivers nutrients and oxygen to all cells in the body.	Important facts to know by the end of the circulatory system	☐ How does blood transport oxygen, waste and nutrients throughout the body?	
ultrasound	An ultrasound machine uses sound waves to take pictures of the inside of the body.	<ul><li>topic:</li><li>Identify and name the main parts of</li></ul>	☐ What does the circulatory system include and what is its	
cardiologists	A cardiologist is a doctor with special training and skill in finding, treating and preventing diseases of the heart and blood vessels.	<ul> <li>the human circulatory system.</li> <li>Know the function of the heart, blood vessels and blood.</li> </ul>	purpose?  How can we keep our heart healthy?	
capillaries	Capillaries are very thin blood vessels. They bring nutrients and oxygen to tissues and remove waste products.	Know the impact of diet, exercise, drugs and lifestyle on health.	☐ What can affect your heart?	
pulse	Your heart has to push so much blood through your body that you can feel a little thump in your arteries each time the heart beats.	Know the ways in which nutrients and water are transported in animals, including humans.	what can allect your heart?	
ventricles	The ventricles are the two lower chambers in the heart.	Know who William Harvey was.		

# Year 6 D.T: Design, make and evaluate geodesic structures

Subject Sp	pecific Vocabulary		
Structure	A combination of parts arranged to support loads and resist forces. In DT, pupils learn how structures are designed to be stable and strong.		
Framework	A skeletal support system that gives shape and strength to a structure. Geodesic structures rely on frameworks made of interconnected triangles.		
Dome	A rounded vault forming the roof of a structure, often built using geodesic principles. Pupils explore how domes distribute weight efficiently.		
Load-bearing	Describes parts of a structure that support weight.		
Geodesic	A <b>geodesic</b> is a type of structure made from straight lines (usually struts or rods) that form triangles to create a curved shape, like a dome. These structures are <b>very strong and lightweight</b> because the triangle shapes spread out the forces evenly.		
Geometry	Geometry is the area of mathematics that deals with <b>shapes</b> , <b>sizes</b> , <b>angles</b> , <b>and space</b> . The shapes are combined to make strong and stable structures like geodesic domes.		
Assemble	To <b>put parts together</b> to make a complete structure or product, this is by using joining techniques and following a design plan.		
Stability	The ability of a structure to <b>stay upright</b> and resist tipping or collapsing.		

# **Key Skills**

#### **Design Thinking**

Pupils generate ideas, plan, and develop design criteria for a geodesic dome.

#### **Mathematical Application**

Pupils apply geometry (especially triangles and angles) to understand and build geodesic shapes.

#### **Teamwork and Collaboration**

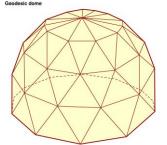
Pupils work in teams to share ideas, solve problems, and construct their dome collaboratively.

#### **Construction and Making**

Pupils use simple materials and joining techniques to build a stable geodesic structure.

#### **Evaluation and Reflection**

Pupils test their dome's stability and reflect on how well it meets the design criteria.







# Sticky Knowledge

- Researching existing products informs the design of new products that are fit for purpose.
- Choosing the correct tools and using them appropriately helps to develop effective techniques.
- Exploring different materials and identifying which one(s) best fit the purpose leads to a more effective outcome.
- Celebrating what has gone well and recognising what has not gone well enables us to make improvements to our work.

# Year 6: PE - Yoga

# **Subject Specific Vocabulary – Key words**

aware	fluidity
calm	notice
connected	practice
collaboratively	salutation
develop	transition



### **Glossary**

**Asana:** Refers to physical poses and postures.

**Namaste:** In yoga this means 'the divine in me acknowledges the divine in you ' and is a respectful way to start or end a class.

**Mindfulness:** The process of purposely bringing one's attention to experiences occurring in the present moment.

**Pranayama:** Refers to breathing techniques. Prana is our life force, our breath.

# **Key Skills - Objectives**

Balance

Strength

Flexibility

Coordination

Working safely

Working independently

Selecting and applying actions



### **Team Work / Fair Play**

Leadership

Sharing ideas

Confidence

Creating, observing and providing feedback



# Famous People/Teams

Adi Shankaracharya (788 AD)

Maharishi Mahesh Yogi (1918–2008)

# Year 6: PE – Tag Rugby

# **Subject Specific Vocabulary – Key words**

Joints	Accuracy
Attack	Fluency
Dodge	Performance
Technique	Release
Try	Fake and feint

#### **Local Clubs**

Medway Dragons Rugby League Football Club

Medway Rugby Football Club



### **Key Skills - Objectives**

To choose, combine and perform skills more fluently and effectively in invasion games.

To understand, choose and apply a range of tactics and strategies for defence and attack.

To use these tactics and strategies more consistently in similar games.

To understand why exercise is good for fitness, health and wellbeing.

To understand the need to prepare properly for games.

To develop their ability to evaluate their own and others' work, and to suggest ways to improve it.

### Team Work / Fair Play

Working as a team

Supporting each other

Passing the ball

Follow the rules

### Famous People/Teams

Sarah Hunter

Owen Farrell

Billy Vunipola

**Emily Scarratt** 



# Year 6 ICT: Variables in games

Subjec	ct Specific Vocabulary	Software and Tools	Sticky Knowledge about Using Scratch
Edit	To change or correct something to improve it.	SORATOH	I can evaluate an existing game and note its key features.
Presentation	A speech or talk in which a new product, idea or piece of work is shown and explained to an audience.		I can follow and create a set of specific instructions.
	shown and explained to all addictions.		I can debug my game and fix any errors
Software	The programs and other operating information used by a computer.	E-Safety	I can think of ways to improve my instructions. Where can I be more specific?
			I can use a range of software to make a presentation.
Debug	Locating and removing computer information used by a computer.	Pupils can incorporate images and sound	when a clicked
Input	Any information or data that is sent to a computer for processing	effects that they download from the web but should respect any license conditions when doing so.	set target to pick random 1 to 100 hide variable target sek [I am thinking about a number between 1 and 100. Your guess] and wait repeat until answer = target
Output	Data generated by a computer		if answer target  say Too small else
Algorithm	A set of instructions designed to perform a specific task		wait 1 secs ask What's your guess? and wait
Interactive	Software which accepts input from the user as it runs.	Age Restrictions On Social Media	say join You win! The answer was indeed target
Pitch	A speech or act that attempts to persuade someone to buy or do something	13 14 16 17 18 18 Twitter Facebook Instagram  Twitter Facebook Instagram  Twitter Facebook Instagram  Timder Tinder Tinde	
	will design and make their own 'Thinking of a ildren will need to think logically to plan and	Pinterest Google+ Tumbir Reddit Snapchat	

test their set of instructions.

Year 6: RE – Islam: What is the best way for Muslims show their commitment to God?

Subject	Specific Vocabulary	Key Skills/Objectives	Lines of Enquiry
Allah	The one and only God in Islam	Comparing the different ways Muslims put their beliefs into practice.  Understanding and discussing the term	What does commitment mean?
Mosque	A Muslim place of worship.	'commitment'  Identifying the Islamic beliefs	What are the 5 pillars of Islam?
Ramadan	The ninth month of the Muslim year, during which strict fasting is	highlighted through the 5 pillars of Islam	
	observed from dawn to sunset	Explaining when and why Muslims go to	How do Muslims put their beliefs into practice?
Makkah	The holiest of Muslim cities. All devout and able Muslims attempt	the Makkah.	
	a pilgrimage (hajj) at least once in their lifetime.	Ranking the effort that Muslims go to practice their beliefs.	
Muhammed	The founder of Islam.		What is the 'best' way for Muslims to show their commitment?
			When and why do Muslims pray?
			Where and what is Makkah?



# Year 6: Spanish – La fecha (the date)



# **Subject Specific Vocabulary**

	· · · · · · · · · · · · · · · · · · ·
lunes	Monday
martes	Tuesday
miercoles	Wednesday
jueves	Thursday
viernes	Friday
sabado	Saturday
domingo	Sunday
enero	January
febrero	February
marzo	March
abril	April
mayo	May
junio	June
julio	July
augosto	August
septiembre	September
octubure	October
noviembre	November
diciembre	December



### **Key Skills**

To name, understand and use the days of the week in Spanish.

To name, understand and use the months of the year in Spanish.

To say, read and write numbers 1-31 in Spanish.

To ask and answer the question ¿Qué fecha es hoy?

To ask and answer the question ¿Cuándo es tu cumpleaños? (When is your birthday?) in Spanish.

### **Lines of Enquiry**

What are the days of the week in Spanish?

What are the months of the year in Spanish?

What are the numbers 1-31 in Spanish?

How do I ask and answer questions about the date in Spanish?

How do I ask and answer questions about birthdays in Spanish?



# Year 6: Music – How does music bring us together?

Subject Specific Vocabulary		
Time signature	The type and number of beats in a bar	
Key signature	Where it shows what key the music is in.	
Minim	A note which lasts two beats.	
Crotchet	A note which lasts one beat.	
Quaver	A note which lasts half a beat.	
Improvise	To make up rhythms and melodies on the spot.	
Major	A key with a bright/happy sound	
Minor	A key with a dark /sad sound	
Blues	A key and type of music which generally has a sad feel. Sometimes some of the notes clash together which makes it feel unstable.	
Texture	The thickness of the music – thick or thin	

# Sticky Knowledge

#### Gospel music is:

- passionate, uplifting lyrics about God, heaven and salvation.
- a strong solo vocalist supported by a choir or instrumental accompaniment.
- often includes instruments such as drum kit, electric bass and keyboard or Hammond organ.
- use of syncopated rhythms and a faster tempo than traditional hymns or Spirituals.

#### 20<sup>th</sup> and 21<sup>st</sup> Century music is when:

- any musical style or combination of styles can be performed, in any context.
- any instrument can be included in the orchestra, such as amplified/electronic instruments and audio effects.
- unusual harmonies, melodies and rhythms can be used.
- unusual vocal and instrumental performance techniques can be used.

# Key Skills (Lesson Learning) Children will be able to:

- Internalise and move in time with a steady beat in 4/4 time
- Copy back rhythms from memory
- Listen to the rhythms provided and create a rhythmic answer.
- Create patterns using simple combinations of minims, crotchets, quavers
- Listen to and copy back melodic patterns using the notes A, B,
   C, D, E, F#, G from memory
- Listen to the melodic patterns and create a simple melodic answer. Create melodic patterns using rhythmic combinations of the notes A, B, C, D, E, F♯, G
- Begin to understand the importance of warming up your face, body and voice
- Copy back melodic patterns using voices
- Create personal musical ideas using the given notes
- Improvisation is about making up your own tunes on the spot
- When someone improvises, they make up their own tune that has never been heard before. It is not written down and belongs to them
- Improvise with confidence
- Improvise using more complex riffs and phrases
- Share and talk about their improvisation



# Year 6: PSHE – Zones of Regulation

Subject Specific Vocabulary		Key Skills/Objectives		Lines of Enquiry		
Blue Zone	The Blue Zone is used to describe when a person feels sad, tired, sick, or bored.	Identify a range of emotions and read my own body's cues to determine emotions that I am		What emotions are linked to each of the Zones?		
Green Zone	A person may be described as calm, happy, focused, or content when he or she is in the Green Zone. The person feels a strong sense of internal control when in the Green Zone.	Explain how my behaviour affects me a other people feel about me.	and how		the Zones hand and expr	• •
Nurture	To take care of, feed, and protect someone or something.	Identify triggers that influence my beh	aviours.	What is	a trigger?	
Red Zone	A person may be experiencing anger, rage, explosive behaviour, panic, extreme grief, terror, or elation when in the Red Zone and feels a loss of control.	Confidently use tools to regulate myse am experiencing intense emotions.	elf when I		the Zones h	• •
Self-regulation	The ability to achieve the preferred state of alertness for the given situation. This includes regulating one's body's needs as well as one's emotions.	Know how to problem solve desirable sto problems I encounter.		NES	of Regu	lation
The Zones	A system to categorize how the body feels and emotions into four coloured Zones with which a person can easily identify.				A A	
Trigger	An irritant that causes a person to become less regulated and increases the likelihood of going into the Yellow or Red Zone.	Surprised Angry			<b>A</b>	
Yellow Zone	A person may be experiencing stress, frustration, anxiety, excitement, silliness, or fear when in the Yellow Zone. The person's energy is elevated yet he or she feels some sense of internal control in the Yellow Zone.	B	e Zone Gi Sad Bored Fired Sick	reen Zone Happy Focused (alm Proud	Yellow Zone Worried Frustrated Silly Excited	Red Zone overjoyed/Elated Panicked Angry Terrified