### Year 5 - Term 1

# How does it flow? How do we grow?

## English – adventure narrative

### The Firework Maker's Daughter

### **By Philip Pullman**

#### **Plot summary**

Lila doesn't just want to be a Firework-Maker's daughter; she wants to be a Firework Maker herself. But although she's learned a lot she still must get through the most difficult and dangerous part of her apprenticeship – and her father won't tell her what it is.

In search of this final Firework-Making secret, Lila heads off alone on a journey. It is a journey filled with dangers beyond anything she could have imagined, a journey on which she will learn so much more than the one secret she set out to find . . .

#### Themes

The main themes are humour, good versus evil, traditions, teamwork, greed, poverty.

#### Key Characters

Lila – Protagonist – The daughter of Lalchland who learned to make her own fireworks and dreams of becoming a firework-maker herself.

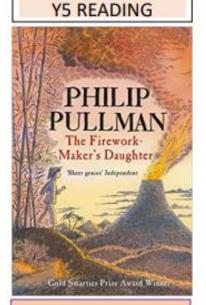
Lalchland – Lila's father who taught her how to make fireworks but now wants her to find a husband instead. His wife, and Lila's mother, died when Lila was young.

Razvani - Antagonist - The Fire Fiend on Mount Merapi.

Hamlet - A talking white elephant owned by the king.

Chulak - Hamlet's servant who is also friends with Lila.

Jembavati - Lalchland's sister who would have brought Lila up as a dancer.



- D Decode
- E Explain
- **R** Retrieval
- I Inference
- C Word Choice

	Key Vocabulary
amulet	A piece of jewellery thought to protect against evil or danger.
bilboard	A large outdoor board for displaying adverts.
boulevard	A large road.
grating	A harsh sound
gunpowder	A type of powdered explosive used in fireworks.
idleness	Being lazy
incandescent	Something that gives off light as a result of being heated
jeer	To make rude or mocking remarks
lotus	A type of flower
pyrotechnics	Another word for a firework display.
rickshaw	This is a two wheeled passenger vehicle that is pulled by a person. Similar to a cart that people can sit in the back of.
roosting	A place where birds settle down for the night.
Rupee	The official currency of India
sarong	Long piece of cloth wrapped round the body and tucked at the waist.
steamed	A group of people moving in the same direction, continuously.
sulphur	A yellow non-metal material with explosive qualities
toiled	To have worked hard.
trundled	To walk heavily or slowly.

### **Key Quotes**

'So Lila said no more about being a Firework Maker and Lachland said no more about husbands.'

'You had to put love into your fireworks.'

"When you reach the heart of the fire, all your illusions vanish."

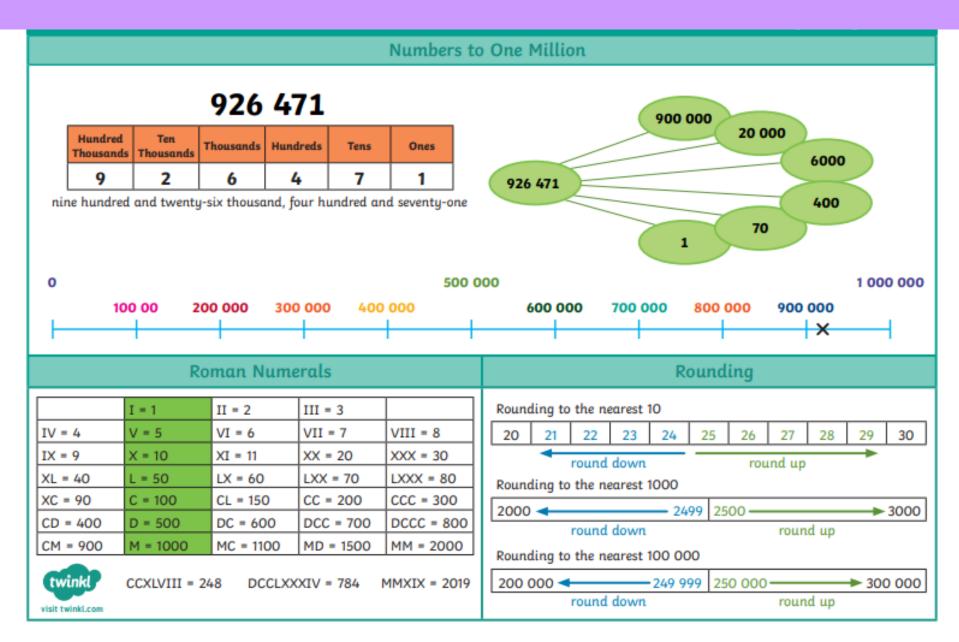
#### Context

Pullman originally wrote the story as a school play. However, it became a best-selling book first and was then adapted into a play. Called a 'fairy tale' by Pullman, the story is both a children's adventure story where the main character undertakes a quest to prove herself, and a metaphor for making beautiful art. In 2015, Pullman said, "I think there is a place for magic in the world – and it's in stories. We'd be a lot poorer, imaginatively, and possibly emotionally, it we cut out all the magic."

## Maths – place value

Key Vocabulary				Co	mpare	a	nd Orde	r				
millions	equ	als			greater	th	an			less	than	
thousands	26 + 38	= 8 × 8	23 873 > 8256			901 198 < 1 091 098						
hundreds	Both calcul			_		-	left has 2					
tens	the va		ten				number on	the		ıumber o lion and	-	
ones							iousands.			he left ho		
zero										-		
place value	smallest	898	6735		6835		7019		9002	11 2	35	greatest
greater than				N	logativ		Number	-				
less than	Negative Numbers											
order					22 23 24 25							
round												
rounded	Counting in Powers of 10											
negative number	Counting ir	1 10s			-		Counting	in 100	s			
partition	365	375 385	395	405	415		2841	2941	3041	3141	3241	3341
digit	The tens in	crease until 9 t	tens become	s one m	ore		The hundr	ods in	rease unt	il 9 hund	reds her	omes one
interval	The tens increase until 9 tens becomes one more hundred and 0 tens.       The hundreds increase until 9 hundreds become more thousand and 0 hundreds.				ontes one							
sequence	Counting in 10 000s Counting in 100 000s											
linear sequence	276 109	286 109	296 109	30	6 109		2 972 15		072 151	3 172 1	51 3	272 151
twinkl visit twinkLcom	The ten tho	usands increas more hundred	se until 9 te	n thouse			The hundred t	red tho becom	usands in nes one mo	crease un	til 9 hu	ndred

### Maths – place value



## Maths – addition & subtraction

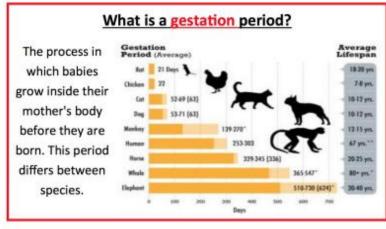
Addition and Subtraction Knowledge Organiser				
Key Vocabulary	Addition	Subtraction		
Add	Place Value Grid: 3274 + 5601 = 8875	Place Value Grid: 35 727 – 6313 = 29	9 414	
Total				
Make		TTh (10 000) (10 000) (2000)	2 ten thousands left	
Plus	<b>1000 1000 1000</b>		5 thousands – 6	
Sum			thousands cannot	
More		Th	be done. Exchange ten thousand for ten	
Altogether		1000 1000 1000 1000	thousands becoming 15 thousands – 6 thousands	
Difference			= 9 thousands	
Subtract				
Minus			7 hundreds – 3 hundreds = 4 hundreds	
Take away				
Column addition		т 😑 💋	2 tens – 1 ten = 1 ten	
Column subtraction	Column Method			
Estimate	Starting with the ones, add each column in turn. Regroup tens, hundreds, thousands,		7 ones – 3 ones = 4 ones	
Inverse operation	ten thousands and/or as required.			
Number facts		Column Method	$\frown$	
Place value	45864	Starting with the ones, subtract each	35 <del>7</del> 42	
Complex	+23497	column in turn. Exchange tens, hundr		
twinkl visit twinkl.com	<u>69361</u> 111	thousands and/or ten thousands as re	quired. <u>32266</u>	

## Maths – addition & subtraction

Addition and Subtraction Knowledge Organise				
Estimate and Approximate	Inverse Operations			
Rounding to Estimate	Use the inverse to check:			
41 635 + 7386 = 49 021	53 476 To check 53 476 - 32 732 = 20 744			
Round to ten:	32 732 20 744 use 32 732 + 20 744 = 53 476			
41 630 + 7380 = 49 010	Start with a number, subtract 409 and double. I end with 6264.			
41 630 + 7390 = 49 020	To find the starting number use the inverse: halve, then add 409. Half of 6264 = 3132. 3132 + 409 = 3541. The starting			
41 640 + 7390 = 49 030	number was 3541.			
Rounding is not as accurate when both numbers are rounded up.	Multistep Problems			
A better estimate comes from "rounding" one down and one up. Estimating on a Number Line	<b>Using a Bar Model</b> The sum of two numbers is 25 567. The difference is 1875.			
10 000 50 000	1875			
	Subtract 1875 from 25 567 = 23 692.			
The arrow is about $\frac{3}{4}$ of the way across the line so it is 40 000.	Halve 23 692 to find smaller number = 11 846. Add 1875 to find larger number = 13 721.			
	£20 £20 is used to buy 2 books costing			
	£3.75 £8.49 ? £3.75 and £8.49.			
	£12.24 £7.76 How much change is given?			
twinkl visit twinkLcom	$\pounds 3.75 + \pounds 8.49 = \pounds 12.24$ $\pounds 20.00 - \pounds 12.24 = \pounds 7.76$			

## Science – Growing old

Science Knowledge Organiser		Growing Up and Growing Old			Year 5		
Working Scientifically Plan different types of enquiry to answer questions	Take meas	urements with increasing accuracy	Record results using diagrams and tables	Use test rest	ults to make further predictions	Report and present findings	



Humans are mammals. There are six stages in the human life cycle:

Foetus: At this time, a baby is growing inside its mum's womb.

Baby: A baby is born after spending nine months inside the womb.

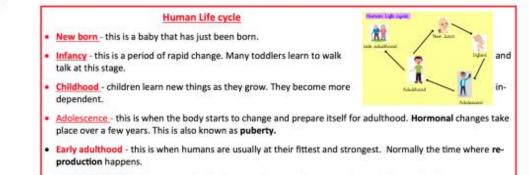
Childhood: At this stage, you learn to walk and talk.

Adolescence: Children become teenagers.

Adulthood: Your body is fully developed.

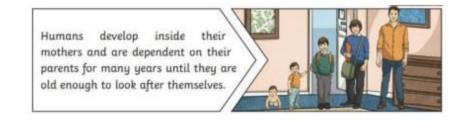
Old age: The last stage in the life cycle of a human.





 Middle adulthood - changes such as hair loss may happen. There are also some hormonal changes again and the ability to reproduce decreases. This is called the menopause.

Late adulthood - there is a decline in fitness and strength.

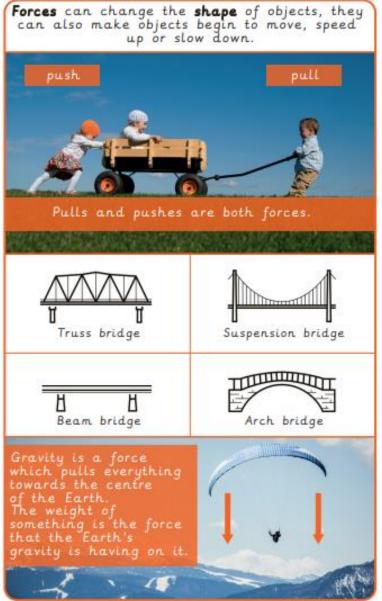


## Geography - Rivers

River	A path th	at water takes as it flows downhill, usually towards another river or lake, sea or ocean.	<ul> <li>The longest river in the UK is the River Severn (354km).</li> </ul>		
Source		ning of a river. Some come from underground springs while others are formed by mountain	Rivers are important within the		
Telbutan	rainfall o	r snow. river or stream that feeds into a larger river.			
			water cycle.		
Watershe	d The area	of land that drains into a specific river.	Rivers always flow downhill. The		
Floodplai	n An area o	f land (often low-lying) which is covered with water when a river overflows.	source of the river is always on high ground and the mouth is on flatter land.		
Channel	The path	that a river takes is called its channel.	ground and the mouth is on natter land.		
Riverban	k The land	that runs alongside a river. It is usually fertile land.	<ul> <li>Rivers don't travel in straight lines. They have</li> </ul>		
Estuary	The point	at where a river meets the sea. Fresh water and salt water mix together	meanders which curve from side to side. The shape of a river can change over time due to erosion and deposition.		
Confluenc	te The point	at which two rivers meet.	The can change over time due to erosion and deposition.		
Meander	r A curve i	a river that swings in wide loops from side to side.	Rivers are fresh water. Humans and animals use them as a		
Mouth	The end	of the river (usually the widest point) where it flows into a lake, sea or ocean.	water source. We also use them for leisure, transport and a power source.		
Erosion		t flowing rivers knock bits of rock and earth from the bank (side) and bed (bottom) of the river			
Erosion		• If diele is do much rainal, rives			
Silt		hat is carried down stream by erosion. This is deposited (dropped) when the river slows down	their banks'. This causes flooding in the local area.		
	nearer th	e mouth.			
Nile	-	Length: 6650km the longest river in the world. Source: Lake Victoria (Tanzania)	Course: It flows north through north-east Africa.		
Nile	- Part (		Course: It flows north through north-east Africa. The banks along the Nile provide fertile land in the desert.		
Nile Amazon	- Part B		The banks along the Nile provide fertile land in the desert.		
	224	Mouth: Mediterranean Sea (Egypt). Wildlife: Nile crocodile and hippopotamus. Fact:	The banks along the Nile provide fertile land in the desert. eru) Course: It flows east across South America.		
Amazon	224	Mouth: Mediterranean Sea (Egypt).       Wildlife: Nile crocodile and hippopotamus.       Fact:         Length: 6400km the second longest river in the world.       Source: Andes mountain range (Per Mouth: Atlantic Ocean (Brazil)       Wildlife: Anaconda, piranhas, pink river dolphin and electric	The banks along the Nile provide fertile land in the desert. eru) Course: It flows east across South America. c eel. Fact: The Amazon holds more water than any other river.		
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## Design Technology - structures

Accurate	Neat, correct shape, size and pattern with no mistakes.
Arch bridge	A bridge which is built with a curved arch.
Beam bridge	A bridge which is built with horizontal beams and vertical pillars.
Bench hook	A tool which hooks onto the edge of the workbench. It's used to hold woodwork still when sawing.
Compression	A squashing force caused when parts of a structure are pushed together.
Coping saw	A saw with a narrow D-shaped metal blade, used for cutting curves in wood.
File	A tool used to smooth down rough edges on wood or metal materials.
Mark out	To measure and mark where a piece of material needs to be cut or shaped.
Reinforce	To make a structure or material stronger, especially by adding another material or element to it.
Sand paper	Strong paper with sand on one side to smooth or polish woodwork.
Set square or Try square	A right-angle triangular plate, wood or metal tool used for drawing lines at 90°, 45°, 60°, or 30°.
Shape	The form of an object.
Structure	Something which stands, usually on its own.
Suspension bridge	A bridge which is supported by vertical cables and suspended by cables which run between pillars that are connected onto either end of the bridge.
Tenon saw	A saw with a flat blade, used for cutting wood in straight lines or angles.
Tension	A stretching force caused by two parts of a structure being pulled apart.
Truss bridge	A bridge which is built from a series of triangular beams.



## Computing - Systems

SUBJECT SPEC	CIFIC VOCABULARY				
bot	A software program that performs automated, repetitive, pre-defined tasks.				
connection	Describes the link between a plug or connector into a port or jack.				
crawler	A program that visits Web sites and reads their pages and other information in order to create entries for a search engine index.				
digital	Storing, using, or sending information electronically.				
index	A method of sorting data by creating keywords or a listing of the data.	STICKY KNOWLEDGE	KEY SKILLS		
input	Information fed into a data processing system or computer.	Computers can be connected together	<ul> <li>Recognise the role of computer systems in our lives.</li> <li>Make use of a web search to find specific</li> </ul>		
output	The information produced by a computer.	to form systems.			
process	A series of actions which are carried out in order to achieve a particular result.	Someone performing a web search can influence the results that are returned.	<ul> <li>information.</li> <li>Refine a web search.</li> <li>Compare results from different search engines.</li> <li>Describe how search engines select</li> </ul>		
refine	Improve something, especially by removing unwanted material.				
search engine	computer software used to search data for requested information.		<ul> <li>Explain how search results are ranked.</li> </ul>		
system	A number of things (parts, components, people) that work together to complete or perform a task.	Content creators can optimise their sites for searching.	<ul> <li>Recognise some of the limitations of search engines.</li> <li>Explain how search engines make money.</li> </ul>		

## **Computing - Systems**

#### Overview

#### Systems

-You should also know that <u>Information technology</u> (I.T.) includes <u>computers</u> and <u>things that work with</u> computers.

-You should also know that computers have Input, Process and Output (IPO) components.

Computer systems are built using a number of parts.

-Computer systems can communicate with other devices.

-There are many, many different kinds of computer systems all around the world, ranging from small-scale to large scale.

#### Systems

-Systems are a set of things working together as parts of a whole. -Computer systems are made up of inputs (something that sends a message to the device), processes (the way the device acts on the message) and outputs (something that is sent out by the device). Below are some examples.

		-
Washing Machine:	DVD Player:	Smart Locker:
Input: Dials and buttons.	Input: The disc is inserted	Input: The customer scans
Process: The computer	and play is pressed on the	in a barcode.
inside follows a program.	remote.	Process: The code is
Output: The clothes are	Process: The system reads	recognised by the system.
washed and the display	the information on the disc	Output: The correct locker
shows the remaining time.	Output: The screen	is opened.
1 200 m	displays the movie/ show.	
	100000	

### Transferring Information

#### Protocols and Packets

 Protocols are an agreed way of doing something. When we communicate, we use an agreed set of protocols (greeting, speaking, listening, etc.).

 In computing, agreed protocols are the way that computers communicate with one another.

 The digital information they send is called a 'packet.'

 Media, files and information can be shared on the internet either privately via email/cloud space



### IP Addresses

 Computers and their users are not always in the same place as one another.

With billions of computers around the world, computers need to send the information to the correct place.

 To do this, computers use special addresses called IP addresses. They may look like this:



### Working Together

-Collaborating is another word for working together on something, to reach a shared goal.

 The internet can be used to help people collaborate online, even when they are a long distance apart!

-'Chat' functions can be used keep each other updated with new information.

-Shared 'cloud' spaces and online drives can allow one or more person to have access to/ edit documents.

-When building upon someone else's work, you need to be aware of copyright and intellectual property rules.



Important Vocabulary

### PSHE



### Year 5 - Me and My Relationships

### **Key questions**

Feelings What are emotional needs? Do we have the same emotional needs? Do emotional needs stay the same? Why are emotional needs important? Friendship Skills, Including Compromise What qualities make a good friend? Why? How does a good friend show these gualities? Do these qualities make a difference in friendships? How? Assertive Skills How can someone stand up for themselves? When would someone use their assertiveness skills? Is assertiveness the best way to react to pressure? Why?

### Key vocabulary

collaborate aggressive resolution conflict pressure emotional needs passive assertiveness negotiation unsafe compromise body language respect uncomfortable touching qualities unhealthy relationship

### I can ...

I can give a range of examples of our emotional needs and explain why they are important.

I can explain why these qualities are important.

I can give a few examples of how to stand up for myself (be assertive) and say when I might need to use assertiveness skills.

### RE - Sikhism

### How do Sikhs show commitment to their faith?

Subject S	Specific Vocabulary	
Guru	Punjabi word meaning teacher. They were the Sikh's spiritual leaders.	
Guru Nanak	The founder of the Sikh faith.	
Guru Gobind	The final human Guru; he created the Khalsa	
Waheguru	The Sikh word for God	
The Golden Temple	The holiest place in the world for Sikhs, in the Punjab in India.	A Line man
Guru Granth Sahib	Sikh holy book and the 'eternal teacher'.	
Gurdwara	Sikh place of worship where everyone sits to pray and eat.	Sticky Kno
Gurdwara Amrit		Sticky Kno A commitment is a promise to give your time and energy to something you believe in.
	everyone sits to pray and eat. Sugar water. Sikhs are sprinkled with Amrit when they join the	A commitment is a promise to give your time and energy to something
Amrit	everyone sits to pray and eat. Sugar water. Sikhs are sprinkled with Amrit when they join the Khalsa. The meal that always follows Sikh	A commitment is a promise to give your time and energy to something you believe in. The Sikh faith was started by Guru Nanak over 500 years ago in the

### **Key Skills**

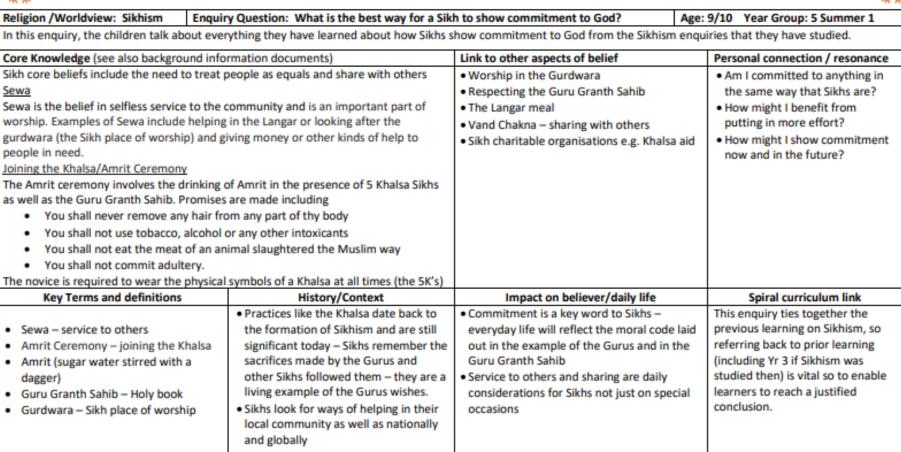
- I can identify the different levels of commitment I show to different things and explain these priorities.
- I can make links between how Sikhs practise their religion and the beliefs that underpin this.
- I can respectfully ask questions about some of the ways Sikhs choose to behave and the levels of commitment they show.

Sticky Knowledge				
s a promise to give	The five key Sikh beliefs			
nergy to something	are:			
is started by Guru years ago in the f India.	<ul> <li>Keep God in your heart and mind at all times</li> <li>Live honestly and work</li> </ul>			
community was	hard			
han 300 years ago	Treat everyone equally			
est festival of	Be generous to those			
e than 20 million	less fortunate than you			
I the world	Serve others			

## RE - Sikhism

This knowledge organiser is a guide, offering key information to point the teachers and children in the right direction as to the beliefs underpinning the particular enquiry. The summaries must not be taken as the beliefs of ALL members of the particular religion.

Discovery RE Knowledge Organiser



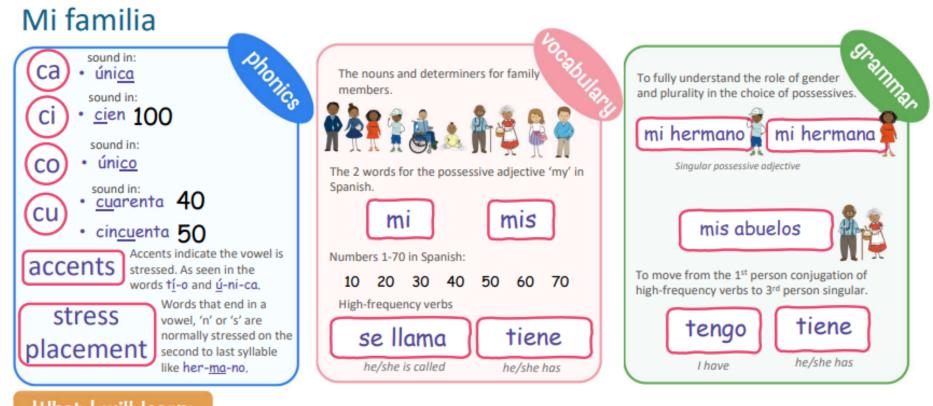
#### Home learning ideas/questions:

What commitments do we have at home? How do we all play a part in helping each other and showing each other respect?





# Spanish – Family



### What I will learn:

Objective 1: I will learn the nouns and determiners for several family members in Spanish.

Objective 2: I will learn how to move from using the determiner 'a' with a family member noun to a possessive adjective 'my' in Spanish.

Objective 3: I will learn to answer the question '¿Tienes hermonos?' (Do you have any brothers or sisters?)

Objective 4: I will learn how to introduce family members, learning to use 'se llama' (he/she is called).

# PE – Tag Rugby



LESSON	OUTLINE OF LESSON							
1	Pupils learn how to dodge and weave an object using speed and direction. Pupils learn what agility is and why we use it in Tag Rugby.							
2	Pupils learn how to become familiar with a rugby ball. How to hold it and catch it with two hands. Pupils also learn to move their feet towards the ball for a successful catch and how to turn in the air away from their defenders to avoid a knock on.							
3	Pupils learn how to use the correct technique to throw the rugby ball backwards down a line and whilst moving. Passing is made more challenging by adding defenders to create pressure on the attackers.							
4	Learning to tag a player and learn the rules associated with tagging.							
5	Pupils learn how to pass and move towards a goal area. Combining passing and running skills using and developing tactics. Players learn to use spaces.							
6	Pupils learn how to score in rugby by placing the ball down in target areas. They learn how to work as a team communicating ideas and rules.							
Q	KEYWORDS KEYWORDS KEYWORDS							

- Speed
- Direction

No Con

Dodging

- Pass and run
- Aim
- Accuracy
- Space

- Accuracy
- Eye contact
- Place the ball down

### PE - Gymnastics

6

SCHEM	E OF WORK: <b>GYMNASTICS:</b> YEAR 5	<ul><li> Point</li><li> Group</li><li> Posture</li></ul>
LESSON	OUTLINE OF LESSON	$\sim$
1	To learn how to perform point and group balances.	
2	To learn the difference between symmetric and asymmetric shapes.	
3	To be able link balances and shapes to create a short routine.	
4	To be able to incorporate a piece of equipment into a short routine.	
5	To understand the principles behind effective jumping.	
		4

To be able to create and perform a routine which involves all skills learnt from previous weeks.

