

SS John Fisher & Thomas More Catholic Primary School



A Voluntary Academy

	A voluntary Academy			
Year Group: Year 6	Term: Autumn 1	Topic: Animals Including Humans		
 Jational Curriculum Links Pupils in Key Stage Two should be identify and name the main recognise the impact of die describe the ways in which 	taught to: n parts of the human circulatory system, and et, exercise, drugs and lifestyle on the way th n nutrients and water are transported withir	d describe the functions of the heart, blood vessels and blood eir bodies function animals, including humans		
 Vorking Scientifically plan different types of scie take measurements, using recording data and results graphs use test results to make prise 	ntific enquiries to answer questions, includir a range of scientific equipment, with increas of increasing complexity using scientific dia edictions to set up further comparative and	ng recognising and controlling variables where necessary ing accuracy and precision, taking repeat readings when appropriate grams and labels, classification keys, tables, scatter graphs, bar and lir fair tests		
 and written forms such as identify scientific evidence 	displays and other presentations that has been used to support or refute idea	s or arguments.		
 report and present miding, and written forms such as identify scientific evidence 	displays and other presentations that has been used to support or refute idea	s or arguments. Future Learning		

Common Misconcer	otions
ome children may think:	
your heart is on the left side of your chest	
the heart makes blood	
• the blood travels in one loop from the heart to the lungs and around the body	y
when we exercise, our heart beats faster to work the muscles more	and the second se
 some blood in our bodies is blue and some blood is red 	
we just eat food for energy	
all fat is bad for you	
all dairy is good for you	
 protein is good for you, so you can eat as much as you want 	
foods only contain fat if you can see it	
all drugs are bad for you.	
Sustainable Development Goals & Ca	atholic Social Teaching
hese Sustainable Development Global Goals would be perfect to fit with this unit of	learning
Ndd your activities here	CODD HEALTH A DEMITTY I CHELIN WATER 11 SUSTAINABLE CITIES 12 RESPONSIBLE
	AND WELLIEW CONSUMPTION
and the second se	
bese Catholic Social Teaching strands would be perfect to fit with this unit of	of learning.
Add your activities here	i learning.
Applied Write Opportunities	Enrichment Opportunities
Our bodies are incredible (see lesson 6)	
How the respiratory system works (see lesson 3)	
	unition
Assessment Opport	
Assessment Opportu Use the role play model to explain the main parts of the circulatory system a	nd their role

- Can explain both the positive and negative effects of diet, exercise, drugs and lifestyle on the body
- Present information e.g. in a health leaflet describing impact of drugs and lifestyle on the body

Key Vocabulary

<u>Tier Two:</u>

heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs, lifestyle, Caffeine, Tabacco, Inhalants, Alcohol, Cannabis, Aorta, Arteries, Capillaries, Veins, Organ, Inhale, Exhale White blood cells Red blood cells Platelets Plasma Nutrients Hormones

Tier Three:

Septum, Atrium



Knowledge and Skills Objectives	Activity	Differentiation
Lesson One I understand the functions and importance of blood. Add w/s here	Children to watch video on blood, looking at how blood moves around the body. (BBC bitesize) Children to then see PPT about four functions of blood and how they support the body. -plasma -white blood cells -red blood cells -platelets Children to understand each different function of blood and its role within the body . For example, red blood cells are like postmen, they drop off oxygen. Plasma has nutrient and hormones. White blood cells are like policemen stopping bacteria and viruses etc. Children to watch class experiment with fruit, oil and water. This is an example of what can be seen under a microscope and what we see. Explain to children that when you look at blood through a microscope you see all the different cells. But when we see blood we just see red (almost like water) liquid. So when we blend the fruit (platelets, WBC, RBC) and oil (Plasma) together that's blood that we see. But before blending this is what is under a microscope.	 SEN - LA - Draw pictures with labels MA - Draw pictures with sentence explaining what the function is HA - Draw pictures explain what each component is and how they work make reference to how they work together. All children to draw and explain what each function of blood is and how it works within the body.
Knowledge and Skills Objectives	Activity	Differentiation

Lesson Two I can understand the hearts role within the human body and its functions. Add w/s here	 Recap previous lesson about blood and the role blood plays within the body see lesson1. Explain to children that everytime the heart beats it is sending blood around the body (WBC, RBC, plasma, platelets). Ask children to put hand on chest and feel heart beating. The heart never stops which makes it an amazing organism. <u>The heart</u> Four chambers, each chamber is blood filled and has a different role. Draw this for them to see. Two chambers: Atria (both together called atrium). These are located top sides from each other. Left atrium and right atrium. Two chambers: Ventricles (left and right) their job is to squirt out blood which travels to body and lungs. These two chambers are split in half by the septum (thick mucus). 	 <u>SEN -</u> <u>LA</u> - Children to have picture of heart in books and be able to label the heart. <u>MA</u> - Children to have picture of heart in books and be able to label the heart. <u>HA</u> - Children to have picture of heart in books and be able to label the heart. Write an explanation as to how the heart and blood link together.
Knowledge and Skills Objectives	Activity	Differentiation
Lesson Three I understand how the respiratory system works. Add w/s here	Children should understand that the respiratory system is the main system that allows oxygen to travel around the body, to vital organs and muscles. Chn should make links to RBC for this. Teach chn that oxygen is taken to and from the lungs by the inhaling and exhaling that we do daily. Oxygen is taken during inhaling and carbon dioxide (waste gas) is let out during exhaling. Make reference to the nose and mouth. Experiment with balloon and plastic bottle to show how this works. As the balloon fills to with oxygen that is the lungs getting bigger. Then release the balloon into a plastic bottle so	<u>SEN -</u> <u>LA</u> - write own paragraph about the respiratory system explaining its importance for humans and animals. (heavily guided layout worksheet and diagrams) <u>MA</u> - write own paragraph about the respiratory system explaining its importance for humans and animals.

	that children can see the 'condensation' (oxygen) land on the bottle this is what happens to our bodies. Fill balloon up again and just release in the air (carbon dioxide) leaving the body.	 <u>HA</u> - write own paragraph about the respiratory system explaining its importance for humans and animals. Make links to coughing and sneezing (these help the respiratory system stay clean and not blocked) Ask children to write up what happened during experiment. (stick pic collage in books). Give children chance to explain how the respiratory system links with the last 2 lessons on blood and heart. They should be able to make the link between how they all work together to create one big system. Eg RBC picking up oxygen.
Knowledge and Skills Objectives	Activity	Differentiation
Lesson Four I know the impact that diet and exercise has on the body. Linked to PE & PSHE	Children to explore how diet and exercise impacts the body. They should use previous knowledge about how the circulatory system works and the impact that a healthy lifestyle plays. The most important area of this lesson is to create a positive body image for children. Using Ten Ten resources about peer pressure. Children need to explore both the negative and positive effects of diet. <i>discuss that children aged 7-10 needs lots of energy and</i> nutrients because they're still growing. Average 10 -year-old	No differentiation. <u>Ideas</u> -Children to create their own healthy lunch. -Create a questionnaire to ask children in the school about healthy lifestyle (research and then write up results). -Design a menu – Mr Hemington to pick winning menu based of healthy choices. -Design a poster about positive Body images.

Knowledge and Skills ObjectivesForLesson Five I understand the impact drugs has on the bodies functions/For we	Activity	Differentiation
Lesson Five I understand the impact drugs has on the bodies functions/	or this losson we are using a plan created my Matters which	
Add w/s here See	e used last year as part of a pilot lesson. Children responded ell.	Group work Children create a presentation around how substances can impact our bodies. A poster to display the impacts.
Knowledge and Skills Objectives	Activity	Differentiation
Lesson Six Our I understand how nutrients and water is carried within animals. To wh where Where Add w/s here Chi hur fea elep ada	ur bodies are incredible b look at how animals and humans adapt depending on here they live. This lesson is based around a research task in hich children will be asked to create a report based on the the above 'OBA1'. hildren will have the opportunity to research one animal or uman that has pushed their bodies to do some incredible ats. E.G Wim Hof, Usain Bolt, Mo Farah (humans), animals, ephants, camels, eagle. Think about how their bodies have dapted to their job or environment.	SEN - LA - MA - HA -

Types of Drugs - Year 6 - Lesson 5

PSHE Programme of Study Links:

KS2 H17. Which, why and how, commonly available substances and drugs (including alcohol, tobacco and 'energy drinks') can damage their immediate and future health and safety; that some are restricted and some are illegal to own, use and give to others.

Learning Objectives:

• To know which, why and how, commonly available drugs can damage health and safety and the law relating to these.

Time	Session Outline	Slide	Learning Outcomes	Resources
			Learners will be able to:	
5	Introduce the topic to pupils, explaining that they will be learning about how some drugs affect health and safety and how come are legal/illegal to own or give to others. Clarify that there is understanding amongst pupils about what is legal/illegal. You may wish to invite pupils to share examples of legal/illegal/prescription medicines that they have heard of.		Setting the scene	
25	Divide the class into small groups and explain that each group will be working as a team to research a drug and prepare a presentation about the effects of the drug. You may wish to give pupils copies of a body outline for them to record their ideas or you may wish to ask them to use ICT to prepare a presentation.	2	 Identify some common effects of some commonly used drugs. 	Body boards
20	Give each group a different drug card set to support their research.		Develop and procent	Druge Workshoot
50	are listening to the presentations to choose 3 facts that they feel are important to know and record it on the Drugs Worksheet.	I	to peers (as part of a team) about the effects of one commonly available drug.	Drugs worksneet