

Science – Animals, including humans (Year 6)

Outcome: Use research to create a model/ poster explaining the functions of the heart, blood vessels and blood, recognising the impact of external features on these parts. Link to RSE week



Prior Knowledge and Skills

- Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. (Y2 Animals, including humans).
- Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. (Y3 Animals, including humans).
- Ø Describe the simple functions of the basic parts of the digestive system in humans. (Y4 Animals, including humans).
- Ø Identify the different types of teeth in humans and their simple functions. (Y4 Animals, including humans).

Ideas and inspiration:

Richard Doll (Doctor who proved the link between lung cancer and smoking).

Pattern

seeking

generate questions

people have lower

have higher pulse

for investigation

such as:

pulse rates?

0

0

rates?

-Children

Do older

Do boys



Enauiries

time

during

and

after

exercise.

Observing over

-Observe pulse

rates before,



ыll

Ruth Ella Moore (Bacteriologist who researched immunology, blood groups and tuberculosis).

Comparative/

different activities

to compare the

fair testing

- Complete

impact

on

their

own

heart rate.



Researching

questions to

- Generate

research about the

human circulatory

system. (Children

present what they've

ways: create a model,

write a song, write a

story, create a PPT,

etc.)

learned in different

Vocabulary: Circulatory system:

circulation, heart, pulse, heartbeat, heart rate, lungs, breathing, blood vessels, blood, pump, transported, oxygenated blood, deoxygenated blood, oxygen, arteries, veins, capillaries, chambers, plasma, platelets, white blood cells, red blood cells. Lifestyle: drug, alcohol, smoking, disease, calorie, energy input, energy output. Other: water transportation, nutrient transportation, waste products. **Previously introduced** vocabulary: carbon dioxide

Developing Knowledge and Skills						
Scientific Knowledge:				Within	Expected	Above
800	Identification of the system of the syste	fy and name the main parts of the human circulatory n, and describe the functions of the heart, blood vessels and				
	Recog way tł	nise the impact of diet, exercise, drugs and lifestyle on the neir bodies function.				
	Descri within	be the ways in which nutrients and water are transported animals, including humans.				
Working Scientifically (Skills): Plan: :			Working Towards	Within	Expected	Above
???	Plan d includ	ifferent types of scientific enquiries to answer questions, ing recognise and controlling variables where necessary.				
Working Scientifically (Skills): Record:						
	Record diagra and lir	d data and results of increasing complexity using scientific ms and labels, classification keys, tables, scatter graphs, bar ne graphs.				
How can your learning help you in PE?						

Is there anything else you would like to know about animals? ______

_____ Highlights: ______