

6º E

MATHS & SCIENCE MODULE TEMPLATE

Subject: Science (Year 6)

TOPIC of the module: Human circulatory system

Age of students – 11 years old

Required prior knowledge

Pupils should be able to:

- Identify some body parts and internal organs (heart, blood vessels, blood)

Objectives

Pupils will be able to:

- Identify and name the main parts of the human circulatory system.
- Recognise the main function of the human circulatory system and describe the functions of the heart, blood vessels and blood.
- Recognise the impact of diet, exercise and lifestyles on the way their bodies function.
- Develop their scientific vocabulary and articulate scientific concepts clearly and precisely.

Opportunities –

Cross curricular

- Developing positive attitudes to reading and understanding poetry.
- Recognising some different forms of poetry and play scripts.
- Developing positive attitudes and stamina for writing poems.
- Developing positive attitudes and stamina for writing short play scripts.
- Reading and learning a wider range of poetry by heart.

- Preparing poems to read aloud and perform, showing understanding through intonation, tone and volume.
- Preparing play scripts to perform, showing understanding through intonation, tone, volume and action.
 - Reading and writing short poems in English.
 - Knowing short poems in English by heart.

Science

- Exploring and answering questions that help pupils understand how the circulatory system enables the body to function.
- Learning how to keep their bodies healthy and how their bodies can be damaged.
- Learning how some drugs and substances can be harmful to the human bodies.
- Exploring the work of scientists and scientific research about the relationship between diet, exercise, drugs, lifestyle and health.

Arts involved

Literature - drama / poetry
Art

Resources - presentations, links to websites, materials, equipment, etc...

Time frame - number of lessons and duration of lessons

About 10, 50 minute lessons

Methods of work (individual, pair work, group work, ...)

Class work / group work / pair work

Procedure / steps

- Regular science lessons (teacher's explanation / pupils' research (human circulatory system)
- Reading and interpreting a poem written by a Portuguese poet - António Gedeão.

*Eu queria que o Amor estivesse realmente no coração,
e também a Bondade,
e a Sinceridade,
e tudo, e tudo o mais, tudo estivesse realmente no coração.
Então poderia dizer-vos:
“Meus amados irmãos,
falo-vos do coração”,
ou então:
“com o coração nas mãos”.
Mas o meu coração é como o dos compêndios.
Tem duas válvulas (a tricúspida e a mitral)
e os seus compartimentos (duas aurículas e dois ventrículos).
O sangue ao circular contrai-os e distende-os
segundo a obrigação das leis dos movimentos.
Por vezes acontece
ver-se um homem, sem querer, com os lábios apertados,
e uma lâmina baça e agreste, que endurece
a luz dos olhos em bisel cortados.
Parece então que o coração estremece.
Mas não.
Sabe-se, e muito bem, com fundamento prático,
que esse vento que sopra e ateia os incêndios,
é coisa do simpático.
Vem tudo nos compêndios.
Então, meninos!
Vamos à lição!
Em quantas partes se divide o coração?*

- Pupils research and find out more about this poet and other poems.

- Pupils write poems or play scripts about the previously learnt contents (heart, blood vessels and blood).

- Pupils plan, draft and write by selecting the appropriate form and using similar writing as models for their own.

- Pupils and teacher(s) evaluate and edit by assessing the effectiveness of their writing.

- Pupils and teacher(s) evaluate and edit by proposing changes to vocabulary, grammar and punctuation to enhance effects and clarify effects and meaning.

- Pupils and teacher(s) proof-read for spelling and punctuation errors.

-Pupils learn poems / play scrips by heart.

-Pupils rehearsal play scripts and perform them to their schoolmates.

-Pupils recite their poems to their schoolmates.

Evaluation summary and comments about how the module went: engagement of the students, difficulty, effectiveness, improvement suggestions ...)