

## STICKY KNOWLEDGE FOR SCIENCE

1. The circulatory system is made of the heart, lungs and the blood vessels.
2. Arteries carry oxygenated blood from the heart to the rest of the body and veins carry deoxygenated blood from the body to the heart. Nutrients, oxygen and carbon dioxide are exchanged via the capillaries.
3. Some choices, such as smoking and drinking alcohol can be harmful to our health.
4. Tobacco can cause short-term effects such as shortness of breath, difficulty sleeping and loss of taste and long-term effects such as lung disease, cancer and death.
5. Alcohol can cause short-term effects such as addiction and loss of control and long-term effects such as organ damage, cancer and death.
6. Exercise can: tone our muscles and reduce fat; increase fitness; make you feel physically and mentally healthier; strengthens the heart; improves lung function; improves skin.
7. The heart is composed of four chambers; the right atrium, the right ventricle, the left atrium and the left ventricle. How often your heart pumps is called your pulse.
8. Blood: transports oxygen and nutrients to the lungs and tissues; forms blood clots to prevent blood loss; carries cells to fight infection; regulates body temperature.
9. If you linked up all of the body's blood vessels, including arteries, capillaries, and veins, they would measure over 60,000 miles.
10. Capillaries are the smallest blood vessels in the body and it is here that the exchange of water, nutrients, oxygen and carbon dioxide takes place.

## STICKY KNOWLEDGE FOR HISTORY / GEOGRAPHY

1. The majority of rivers finish their journey at their mouth by entering a body of water such as an ocean, sea or large lake
2. Even the largest and wildest rivers begin as a collection of tiny streams which join together over its course
3. Major rivers have often carved out dramatic landscapes including canyons, waterfalls and steep-sided valleys over geological time
4. Rivers are extremely important to human civilization, providing us with water for irrigation and drinking as well as sources of food, energy, recreation, and transportation
5. Humans, through the actions of farming, industry, waste disposal and urbanisation, are polluting rivers and disrupting natural drainage patterns often resulting in flooding
6. Rivers drain the land through a patchwork of drainage basins and form an important part of the water cycle
7. The water cycle shows how water evaporates from Earth's surface, travels up into the atmosphere, forms into clouds and then falls back to the surface as precipitation.
8. Much of this falling water returns through river systems to seas where evaporation then re-occurs
9. The movement of water in its various states is a key driver of weather patterns
10. The longest river in the world is the Nile in Africa and the widest river in the world is the Amazon in South America

## ESSENTIAL VOCABULARY

tributaries	Rivers that join up with another river.	erosion	Rocks and other river materials are picked up by the water and moved to another place along the river.
channel	The course in the ground that a river or water flows through.	source	The place where a river begins.
tidal bore	A strong tide from the coast that pushes the river against the current causing waves along the river.	mouth	The point where a river joins the sea.
valley	A long ditch in the earth's surface between ranges of hills or mountains.	dam	A barrier built to hold back water.
discharge	The amount of water flowing along a river per second.	deposition/ deposit	When rocks and other materials that have been eroded are dropped off further along the river.

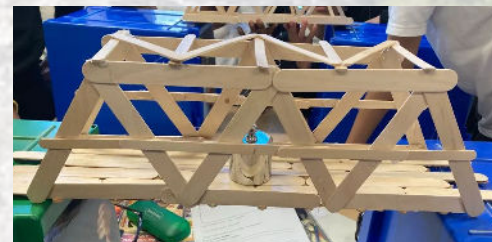
## MUSIC

Journeys

## PE

Football  
Tennis  
Table Tennis

## ART/DT

DT: Structures and Materials  
Bridges

## RE

As a Muslim, what is the best was to show commitment to God?

## MATHS

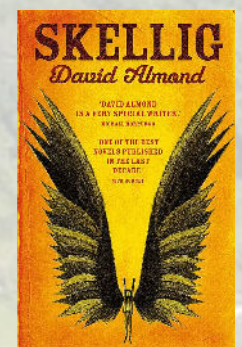
Place Value – 2 weeks  
4 operations - 4 weeks

## PSHE

Me and my Relationships

## COMPUTING

Creating Media – Web page creation

CORE TEXT  
PURPOSE FOR WRITING

## HOOK

Trip to Moreton Ford

## TRIPS / VISITORS

Moreton Ford

## END PRODUCT

Building and testing the strength of our own bridges