



# As Historians, our big question is... How can we rediscover the wonders of Ancient Egypt?



## REMEMBERING Prior Learning

**Pyramids**  
Most ancient Egyptian pyramids were built as tombs for pharaohs (rulers of ancient Egypt) and their families. The largest pyramid is the Great Pyramid of Giza. It took over 20 years to build and measures over 140 metres tall.

**Egypt**  
Located in the continent of Africa. The River Nile (the longest river) runs through Egypt.



## UNDERSTANDING Sticky Knowledge

**The Ancient Egyptian Empire**  
In c. 3000 BC, King Menes united two Egyptian kingdoms to build the empire of ancient Egypt. It lasted until 30 BC when the Romans took over.

**Writing (Hieroglyphics)**  
In ancient Egypt, scribes wrote on papyrus. Papyrus was a thick type of paper made from reeds that grew along the Nile. Scribes were mostly men who went to a special school to learn to write.

Scribes wrote using hieroglyphs. Hieroglyphs were used for religious texts and inscriptions on statues and tombs. They were also used for counting crops and animals so that the right taxes could be taken.

**Did You Know...?**  
The Rosetta Stone was discovered in 1799. It was written in hieroglyphs and two other languages, including ancient Greek, which language experts could still read. They translated the hieroglyphs by comparing the languages. It took 20 years to translate all the text into modern language.

**A Pharaoh's Death**  
The ancient Egyptians built the pyramids as resting places for the pharaohs.

When a pharaoh died, priests would prepare their bodies with a process called mummification.

The pharaoh was then placed in a tomb, often under a pyramid, with their most treasured possessions. The ancient Egyptians believed that these treasures would help them in the afterlife.

**The Nile**  
Life revolved around the Nile. Every year, it flooded and left behind a black silt that enriched the soil for growing crops. The river was also used to irrigate fields in other areas.

The Nile was used for water, fishing and trade. Mud from the river banks was used to make bricks and papyrus plants were used to make paper.

Most people lived along and around the Nile. This is still true in Egypt today.

**Tutankhamun**  
Tutankhamun was a pharaoh known more recently as the 'boy king' because he became pharaoh when he was 9 years old.

His tomb was discovered by Howard Carter and his team in the Valley of the Kings in 1922.

The discovery helped people to understand more about the Egyptians pharaohs.

**Mummies**  
The ancient Egyptians believed if they preserved a dead person's body through mummification, their souls would live on in the afterlife.

**APPLYING My Aspirations**

**Hieroglyphics Translator**  
Although a lot of the hieroglyphics from Ancient Egypt have been translated, there are still many unanswered questions. Could you be the next person to discover new wonders about this ancient civilisation?

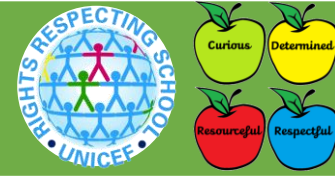
all - to be, exist

## Vocabulary

Hieroglyphics	Irrigation	Pharaoh	Civilisation	Tomb
A system of writing that consists of pictures and symbols (hieroglyphs) instead of letters.	A system of canals or channels dug by the Egyptians to supply water to grow crops over a larger area than the water would naturally reach.	A ruler of ancient Egypt	A human society with well-developed rules and government, often where technology and the arts are considered important.	A sealed room where a person was placed after death.



# As Scientists, our big question is... Could you be the next CSI investigator?



## REMEMBERING Prior Learning



Your fingerprints are unique. That means that no one else in the world has the exact same set of ridges and lines that you have on your fingers. Even identical twins do not have the same fingerprints.



Solid	Liquid	Gas
<ul style="list-style-type: none"> <li>✓ Definite shape</li> <li>✓ Definite volume</li> <li>✓ Definite mass</li> <li>✓ Close particles</li> <li>↓ kinetic energy</li> </ul>	<ul style="list-style-type: none"> <li>✗ Definite shape</li> <li>✓ Definite volume</li> <li>✓ Definite mass</li> <li>✓ Close particles</li> <li>✓ ↑ Kinetic energy</li> </ul>	<ul style="list-style-type: none"> <li>✗ Definite shape</li> <li>✗ Definite volume</li> <li>✓ Definite mass</li> <li>✓ Particles far apart</li> <li>✓ ↑ Kinetic energy</li> </ul>

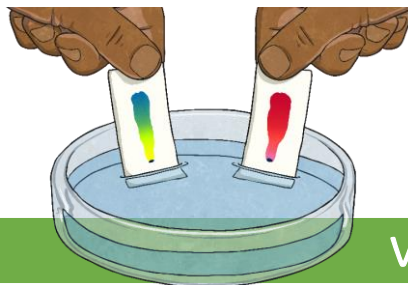
## UNDERSTANDING Sticky Knowledge

### Chromatography

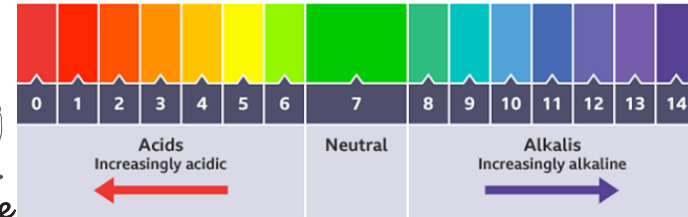
Chromatography is a scientific technique.

It is used to separate the components, or parts, of a mixture.

The pattern left by the colours is called a 'chromatogram'. Each colour is made of different inks, meaning they will have their own chromatogram.



CSI technicians are very important members of criminal investigations. They search for and analyse evidence left at crime scenes. They carry out scientific tests on the evidence they find, and use their results to either link a suspect to a crime, or to prove that a suspect did not commit a crime.



### The pH scale

The pH scale is a number scale from 0 to 14. It tells us how acidic or alkaline a liquid is. The pH scale is used to classify as acidic, alkaline or neutral.

- Neutral solutions are exactly pH 7.
- Acidic solutions have pH values less than 7. The closer to pH 0, the more acidic a solution is.
- Alkaline solutions have pH values more than 7. The closer to pH 14, the more alkaline a solution is.

## APPLYING My Aspirations

As a Crime Scene Investigator, it's your role to gather forensic evidence from crime scenes that will ultimately lead to the detection and prosecution of criminals. You'll process crime scenes using specialist techniques to visualise, capture and recover evidence.

CRIME SCENE - DO NOT CROSS

## Vocabulary

Evaporate	Dissolve	Dilute	Matter	Reversible	Irreversible
Turns from a liquid into a gas/vapor.	When a solid gets incorporated into a liquid.	To make a liquid thinner or weaker.	A substance that takes up space and has volume.	Capable of being reversed so that the previous state or situation is restored.	Incapable of being reversed so that the previous state or situation is restored.