

Mummies

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MUMMIES



Written by Lisa Ing

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immortality (<i>n.</i>)	living forever (p. 12)
incision (<i>n.</i>)	a deep cut (p. 8)
ka (<i>n.</i>)	the dead person's ghostly twin (p. 12)
mummified (<i>v.</i>)	made into a mummy (p. 4)
natron (<i>n.</i>)	a special salt used to dry mummies, similar to baking soda (p. 8)
papier-mâché (<i>n.</i>)	a cardboard-like material, formed out of wet paper pulp, then dried; used to make mummies' coffins (p. 15)
resin (<i>n.</i>)	a fragrant, sticky substance made from tree sap (p. 9)
sacred (<i>adj.</i>)	holy; belonging to a deity or connected to a religion (p. 19)
shabtis (<i>n.</i>)	carved figurines that awoke as servants of the dead in the afterlife (p. 14)
shriveled (<i>adj.</i>)	dried up and wrinkled (p. 9)
talismans (<i>n.</i>)	magical objects that hold protective spells and prayers (p. 10)
tempted (<i>v.</i>)	strongly attracted or driven by desire for something forbidden (p. 16)

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Correlation

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GLOSSARY

afterlife (<i>n.</i>)	the realm of life after death (p. 13)
akh (<i>n.</i>)	the soul and essence of a person, combining the personality and the ghostly form (p. 12)
amulets (<i>n.</i>)	charms worn on the body for protection against injury or evil (p. 18)
arrested (<i>v.</i>)	stopped (p. 5)
ba (<i>n.</i>)	the human-headed bird made out of a person's personality after their death (p. 12)
canopic jars (<i>n.</i>)	the jars holding the mummy's internal organs (p. 8)
cremated (<i>v.</i>)	burned a corpse down to ashes (p. 4)
decomposing (<i>v.</i>)	rotting; decaying (p. 5)
embalmers (<i>n.</i>)	people who preserve corpses (p. 7)
embalming hook (<i>n.</i>)	an embalming tool used to remove the brains from mummies (p. 7)
hieroglyphs (<i>n.</i>)	ancient Egyptian picture writing, using symbols for syllables (p. 15)

TRY THIS

Make your own mummies!



- ❶ Cut an apple into twelve wedges.
- ❷ Put half the wedges skin-side down on a baking sheet.
- ❸ Bake in an oven on low heat for an hour or until dry. Low heat is about 100° Celsius (212°F). You could also put the apple wedges in a warm, dry place in the sun for several days.
- ❹ Remove the apple wedges after they have dried out.
- ❺ Place them next to the six apple wedges that have not been dried.
- ❻ Notice the differences between the two groups of wedges after several days inside at room temperature.

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A cemetery

INTRODUCTION

In modern countries around the world, including Egypt, people are often buried in coffins after they die. Sometimes the body is **cremated**, and the ashes are either kept by loved ones or spread over an area that the person enjoyed, such as the ocean. But this is not the way it has always been. The ancient Egyptians turned their dead into mummies.

The ancient Egyptians are famous for making mummies. They **mummified** everyone from kings to pets by drying the bodies, rubbing them with spices, and wrapping them in strips of cloth. However, the Egyptians are not the only people that mummified their dead. There is evidence of mummification in many places around the world.

We can learn much about ancient civilizations by studying mummies and the contents of their tombs. Scientists around the world study mummies in order to know more about how ancient people lived and died.



This mummy of a young man was found in Peru and is over seven hundred years old.

Where Mummies Have Been Found		
AFRICA	ASIA	SOUTH AMERICA
Egypt	Japan (Honshu)	Peru
Nubia	China	
	Siberia	EUROPE
	Indonesia	Alps (Italy/Austria)
SOUTH PACIFIC		Denmark
Australia		Southern Italy
New Zealand	NORTH AMERICA	Greenland
Papua New Guinea	Northern Canada	
	Southwestern U.S.	
	Mexico	

CONCLUSION

Natural mummies have been found around the world. They can be found in the cold, acidic water of a marsh in Denmark, in the frozen depths of an Alpine glacier, or in the hot sands of a desert.

The dead have been preserved as mummies by many different cultures, from Buddhist monks in Japan to tribesmen in Papua New Guinea. The Incas in Peru, half a world away from the ancient Egyptians, mummified their ancestors in much the same way as the Egyptians. While artificial and natural mummification vary in some ways, they are alike in one important way. All mummification results in the arrest of cell decay, which preserves the body for hundreds, if not thousands, of years.



The naturally-mummified Tollund Man of Denmark was found in a bog in 1950. He lived during the iron age, 300–400 BC, and is the best-preserved prehistoric body in the world.

WHAT ARE MUMMIES?

A mummy is a preserved corpse. Normally, a dead body decays very quickly. Bacteria in the air start **decomposing** body cells immediately after death. If the body is left alone, scavengers and pests, like vultures and flies, devour the corpse. In a mummy, the decay process is **arrested**, and the dead body is preserved for thousands of years.

The first mummifications occurred naturally, in areas that were too dry or cold for bacteria to grow. Bodies were preserved without human interference. Later on, people developed ways to preserve mummies artificially.



The frozen, 500-year-old mummy of a young Inca girl was found near the summit of a 20,700-foot mountain in Peru.



An unprotected corpse soon decays and falls apart.

MUMMIFICATION

The first Egyptian mummies were buried in the hot desert sand. It was so dry that the bodies dried out almost immediately, preserving them from decay. These dried mummies looked a lot like beef jerky. Their flesh became tough and hard.

Unfortunately, unprotected bodies buried in the desert were often eaten by jackals, which love the taste of “human jerky.” Egyptians tried to protect their buried ancestors by covering the burial site with rocks. Wealthier Egyptians buried family members in painted coffins. But the coffins, which kept out the jackals, also kept out the hot sand, and the bodies inside decayed.

ANIMAL MUMMIES

The ancient Egyptians mummified animals as well as people. Cats were especially **sacred** to the Egyptians. They represented Bast, the cat-headed goddess of happiness. Cats were kept as pets, and when one died, the whole family shaved their heads and eyebrows in mourning. Cat mummies were buried with their owners or at the temples of Bast.

Ancient Egyptians also mummified other animals sacred to the gods, such as crocodiles, ibises, and falcons. These animals were sent to the afterlife as offerings to the gods.



Mummy of a cat from Abydos, Upper Egypt, Roman Period, around first century AD

King Tut was buried in a series of three coffins, one inside the other. The first two coffins were made of wood covered in bands of gold. But the innermost coffin was made of solid gold and covered with gems. Tut's beautiful burial mask was also made of pure gold. Heavy jeweled bracelets encircled his wrists, and golden **amulets** and necklaces were draped around his neck.

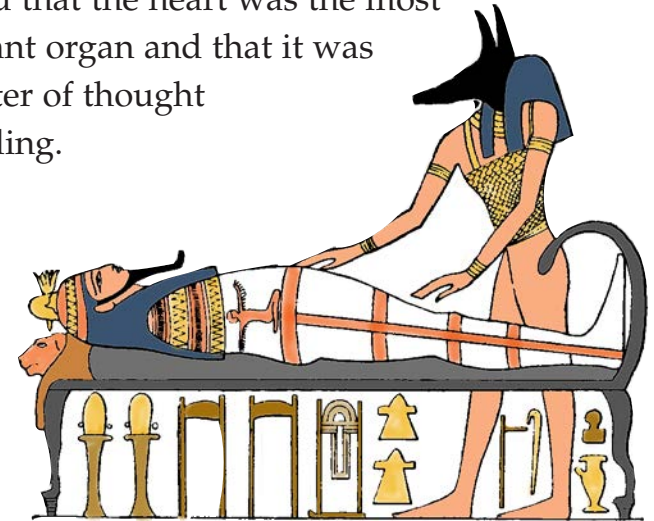


Gold Mask of teenage pharaoh Tutankhamun who ruled Egypt over 3,000 years ago

DO YOU KNOW?

The Egyptians stopped making mummies around AD 400. By this time, most Egyptians had converted to Christianity. They no longer believed that the dead person needed to be mummified in order to experience eternal life.

Resourceful Egyptians developed ways to preserve the bodies before burial. When someone died, the body was given to a team of **embalmers**. First, the embalmers laid the body face up on a six-foot-wide embalming table. Their first job was to remove all the soft organs that encouraged the growth of bacteria. They carefully pulled the brain out through the nose with an **embalming hook**, making sure not to deform the person's face. The brain was not very important to the ancient Egyptians. They believed that the heart was the most important organ and that it was the center of thought and feeling.



DO YOU KNOW?

The Egyptians believed that the first mummy was the god Osiris. He was murdered by his brother Set and cut into pieces. His wife, Isis, put him together with magic, and his jackal-headed nephew, Anubis, embalmed him. Osiris then became the god of the dead and the underworld.

The chief embalmer cut an **incision** in the left side of the stomach. From this hole, the embalming team pulled out all the internal organs except the heart and placed them to the side. The stomach, liver, lungs, and intestines were preserved individually in special jars called **canopic jars**. These organs accompanied the body during burial but were not as important as the heart. The heart was preserved inside the body.

Embalmers washed the body, inside and out, with palm wine. The alcohol in the wine killed bacteria. By this time, the body had probably begun to stink, a sign of decay. So the embalmers filled the body with bags of sweet-smelling spices mixed with **natron**, a special salt. Then they covered up the body and internal organs with more natron and left them alone for 40 days.



Canopic jars had decorative lids that represented minor gods who protected the contents of the jars.



Archaeologist Howard Carter (left) examines the coffin of King Tutankhamun, which he discovered in 1922.

THE TOMB OF TUTANKHAMUN

The Pharaoh Tutankhamun, also called the Boy King, died when he was only a teenager. We know very little about his life or his rule in Egypt, but he is the most famous mummy in the world.

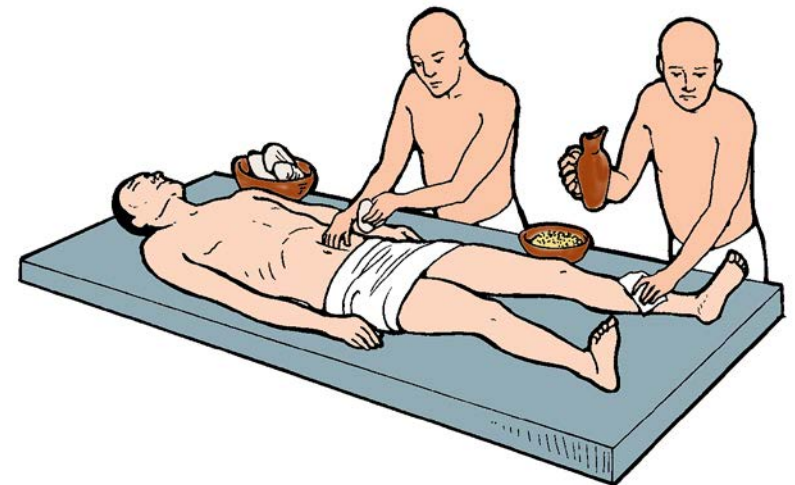
Tutankhamun's tomb was opened in 1923. Even though it had been robbed twice in ancient times, King Tut's tomb still held great treasures. The thieves had entered the second room, which was filled with Tut's gold chariots and statues. They stole about a sixth of the tomb's gold but were probably interrupted before they could finish. King Tut's mummy had not been touched.

Superstitions were common in Egypt. Most people believed that mummies would curse anyone who disturbed their tomb and stole from the dead. But **tempted** by the treasures buried with the mummies, thieves broke into even the best-guarded tombs. They often tore the mummies apart, looking for the gold and gems under the bandages. They were willing to risk death and punishment for riches. Most tombs were robbed within a few years of their mummies' burials.



This mummy of Pharaoh Queen Hatshepsut is more than 3,000 years old. Hatshepsut ruled Egypt for over twenty years. DNA from a tooth helped to identify the mummy as hers.

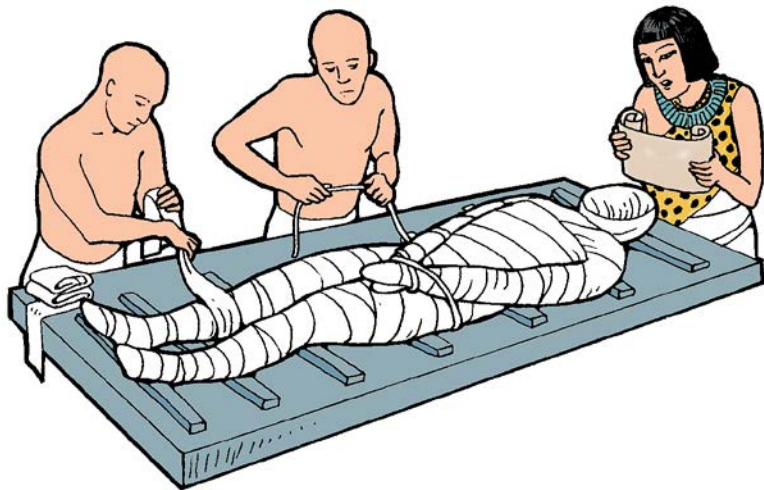
The whole mummification process took seventy days. Once the drying process had been completed, the embalmers removed the salt. The mummy became very light, since all the water—which made up over 65 percent of the body's weight—had been removed. The embalmers filled the inside of the corpse with linen stuffing, producing a body that appeared strong and healthy instead of **shriveled**. Then they rubbed the corpse with more spices, mixed with wax and oil, to make it smell sweet. Next, a sticky **resin** made of tree sap was poured over the body. When the resin hardened, it formed a thin, protective shell around the body. This shell protected the mummy from bacteria and caused it to become darker in color.



The body is stuffed and then rubbed with spices and oils.

Embalmers often applied makeup to the mummy's face to make it look more alive. They also placed jewelry on a rich person's corpse before wrapping it up. The resin-soaked wrap consisted of linen bandages the length of a football field. The wrap helped to preserve the shape of the body.

The best linen was saved for the outermost layer of bandages. Cheap linen was used on the inside, where it couldn't be seen. Magical charms and **talismans** meant to ensure the mummy's safety in the realm of the dead were put between the layers of bandages. These talismans were carved out of precious stones.



A priest reads spells as the mummy is wrapped. A papyrus scroll with spells from the *Book of the Dead* is put between the hands.

THE BURIAL

Mummies were laid to rest in decorated coffins usually made of **papier-mâché** and beaten gold. Richer people were buried in a sarcophagus made of stone or a coffin of imported wood. Pharaohs were buried in up to four gold-covered coffins nested inside each other.

The coffins were painted with a representation of the person's face so that the ba could find the right tomb when it returned at night.

Hieroglyphs, painted or chiseled onto the coffin, told the story of the person's life. These inscriptions also held spells to keep the dead person safe in the underworld.



The painted wooden sarcophagus of Lady Isis, wife of Kabekhent, shows a delicate, lifelike image.

However, as the embalming process became easier and the Egyptians became richer, more people were mummified. The Egyptians eventually believed that everyone deserved to have a chance at immortality.

Since the Egyptians believed that the afterlife was exactly like life, they buried mummies with their favorite objects and tools. Wealthy nobles were buried with gold and gems. Children were buried with their favorite toys. Everyone was buried with clay representations of food and drink, and with clay figurines called **shabtis**—servants who would work for them in the afterlife.



Depending on a person's rank, shabtis could be made of clay, stone, wood, or even gold.

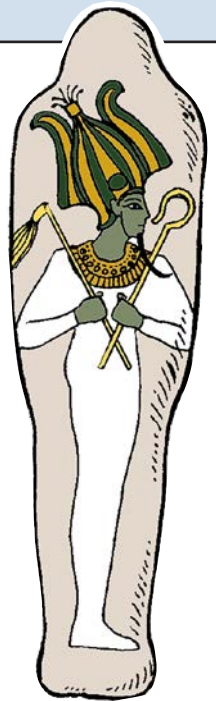
THE STEPS OF MUMMIFICATION

- 1 Place the body on a large table, facing up.
- 2 Remove internal organs through a cut in the abdomen.
- 3 Wash the body with palm wine.
- 4 Dry the body by covering it with piles of salt.
- 5 Remove the salt, and rub the body with sweet herbs.
- 6 Stuff the body with linen and bags of spices.
- 7 Cover the body with resin.
- 8 Apply makeup and jewelry.
- 9 Wrap the body in bandages.

After the body is wrapped in linen bandages, a cloth is wrapped around the entire body. On the cloth is painted a picture of the god Osiris.

DO YOU KNOW?

In the Middle Ages, doctors in Europe prescribed mummy powder, made from ground-up mummies. They thought that mummy dust would cure sick people, but it usually only made them sicker.





Scenes of Egyptian life and rituals of death are depicted on the Egyptian Book of the Dead.

THE AFTERLIFE

The ancient Egyptians believed that **immortality** depended on having a well-preserved body. They believed that a dead person split up at the moment of death into several parts: the **ba**, the **ka**, and the physical body. The **ka** was a person's ghostly identical twin. It lived inside the mummified heart and could not move from the tomb. The **ba**, which represented the personality and spirit of a person, was a human-headed bird that could fly around freely by day. The **ba** and the **ka** joined to form the **akh**, a person's soul.

According to ancient Egyptian belief, a dead person's soul traveled through the dangerous realm of the dead to a special palace of judgment, called Osiris's palace. Along the way, the soul dodged monstrous snakes and crocodiles while crossing huge rivers of fire. Osiris, the god of the dead, judged everyone by weighing their hearts on a scale. If a person's heart was heavy with sin, it was thrown to the hungry monster beneath the scales. That person would die permanently. But if the heart was lighter than a feather, then the dead person would live forever—or be immortal—in the world of Osiris.

When the Egyptians first began to make mummies, only very rich or important people were mummified. They believed that only pharaohs and nobles deserved an **afterlife**.



A painting of a soul being judged as worthy by Osiris