

3 Discovering Lit: the Saga Cortines A. R. Williams

Notice these expressions in the text. Infer their meaning from the context.

- ♦ forensic reconstruction
- scudded across
- ♦ casket grey
- ♦ resurrection

- ♦ funerary treasures
- ♦ circumvented
- computed tomography
- ♦ eerie detail



He was just a teenager when he died. The last heir of a powerful family that had ruled Egypt and its empire for centuries, he was laid to rest laden with gold and eventually forgotten. Since the discovery of his tomb in 1922, the modern world has speculated about what happened to him, with murder being the most extreme possibility. Now, leaving his tomb for the first time in almost 80 years, Tut has undergone a CT scan that offers new clues about his life and death — and provides precise data for an accurate forensic reconstruction of the boyish pharaoh.

An angry wind stirred up ghostly dust devils as King Tut was taken from his resting place in the ancient Egyptian cemetery known as the Valley of the Kings*. Dark-bellied clouds had **scudded across** the desert sky all day and now were veiling the stars in **casket grey**. It was 6 p.m. on 5 January 2005. The world's most famous mummy glided head first into a CT scanner brought here to probe the lingering medical mysteries of this little understood young ruler who died more than 3,300 years ago.

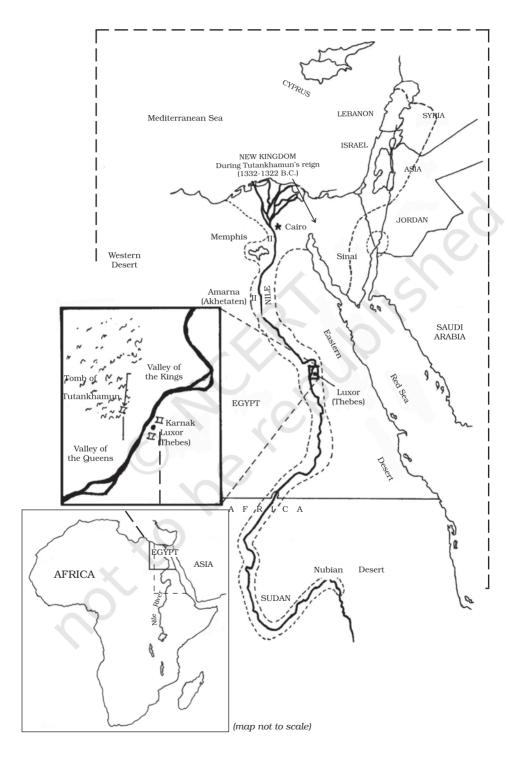
All afternoon the usual line of tourists from around the world had descended into the cramped, rock-cut tomb some 26 feet underground to pay their respects. They gazed at the murals on the walls of the burial chamber and peered at Tut's gilded face, the most striking feature of his mummy-shaped outer coffin lid. Some visitors read from guidebooks in a whisper. Others stood silently, perhaps pondering Tut's untimely death in his late teens, or wondering with a shiver if the pharaoh's curse — death or misfortune falling upon those who disturbed him — was really true.

"The mummy is in very bad condition because of what Carter did in the 1920s," said Zahi Hawass, Secretary General of Egypt's Supreme Council of Antiquities, as he leaned over the body for a long first look. Carter—Howard Carter, that is — was the British archaeologist who in 1922 discovered Tut's tomb after years of futile searching. Its contents, though hastily ransacked in antiquity, were surprisingly complete. They remain the richest royal collection ever found and have become part of the pharaoh's legend. Stunning artefacts in gold, their eternal brilliance meant to guarantee **resurrection**, caused a sensation at the time of the discovery — and still get the most attention. But Tut was also buried with everyday things he'd want in the afterlife: board games, a bronze razor, linen undergarments, cases of food and wine.

After months of carefully recording the pharaoh's **funerary treasures**, Carter began investigating his three nested coffins. Opening the first, he found a shroud adorned with garlands of willow and olive leaves, wild celery, lotus petals, and cornflowers, the faded evidence of a burial in March or April. When he finally reached the mummy, though, he ran into trouble. The ritual resins had hardened, cementing Tut to the bottom of his solid gold coffin. "No amount of legitimate force could move them," Carter wrote later. "What was to be done?"

The sun can beat down like a hammer this far south in Egypt, and Carter tried to use it to loosen the resins. For several hours he set the mummy outside in blazing sunshine that heated it to 149 degrees

^{*} See map on next page



Fahrenheit. Nothing budged. He reported with scientific detachment that "the consolidated material had to be chiselled away from beneath the limbs and trunk before it was possible to raise the king's remains."

In his defence, Carter really had little choice. If he hadn't cut the mummy free, thieves most certainly would have **circumvented** the guards and ripped it apart to remove the gold. In Tut's time the royals were fabulously wealthy, and they thought — or hoped — they could take their riches with them. For his journey to the great beyond, King Tut was lavished with glittering goods: precious collars, inlaid necklaces and bracelets, rings, amulets, a ceremonial apron, sandals, sheaths for his fingers and toes, and the now iconic inner coffin and mask — all of pure gold. To separate Tut from his adornments, Carter's men removed the mummy's head and severed nearly every major joint. Once they had finished, they reassembled the remains on a layer of sand in a wooden box with padding that concealed the damage, the bed where Tut now rests.

Archaeology has changed substantially in the intervening decades, focusing less on treasure and more on the fascinating details of life and intriguing mysteries of death. It also uses more sophisticated tools, including medical technology. In 1968, more than 40 years after Carter's discovery, an anatomy professor X-rayed the mummy and revealed a startling fact: beneath the resin that cakes his chest, his breast-bone and front ribs are missing.

Today diagnostic imaging can be done with **computed tomography**, or CT, by which hundreds of X-rays in cross section are put together like slices of bread to create a three-dimensional virtual body. What more would a CT scan reveal of Tut than the X-ray? And could it answer two of the biggest questions still lingering about him — how did he die, and how old was he at the time of his death?

King Tut's demise was a big event, even by royal standards. He was the last of his family's line, and his funeral was the death rattle of a dynasty. But the particulars of his passing away and its aftermath are unclear.

Amenhotep III — Tut's father or grandfather — was a powerful pharaoh who ruled for almost four decades at the height of the eighteenth dynasty's golden age. His son Amenhotep IV succeeded him and initiated one of the strangest periods in the history of ancient Egypt. The new pharaoh promoted the worship of the Aten, the sun disk, changed his name to Akhenaten, or 'servant of the Aten,' and moved the religious capital from the old city of Thebes to the new city of Akhetaten, known now as Amarna. He further shocked the country

by attacking Amun, a major god, smashing his images and closing his temples. "It must have been a horrific time," said Ray Johnson, director of the University of Chicago's research centre in Luxor, the site of ancient Thebes. "The family that had ruled for centuries was coming to an end, and then Akhenaten went a little wacky."

After Akhenaten's death, a mysterious ruler named Smenkhkare appeared briefly and exited with hardly a trace. And then a very young Tutankhaten took the throne — King Tut as he's widely known today. The boy king soon changed his name to Tutankhamun, 'living image of Amun,' and oversaw a restoration of the old ways. He reigned for about nine years —and then died unexpectedly.

Regardless of his fame and the speculations about his fate, Tut is one mummy among many in Egypt. How many? No one knows. The Egyptian Mummy Project, which began an inventory in late 2003, has recorded almost 600 so far and is still counting. The next phase: scanning the mummies with a portable CT machine donated by the National Geographic Society and Siemens, its manufacturer. King Tut is one of the first mummies to be scanned — in death, as in life, moving regally ahead of his countrymen.

A CT machine scanned the mummy head to toe, creating 1,700 digital X-ray images in cross section. Tut's head, scanned in 0.62 millimetre slices to register its intricate structures, takes on **eerie detail** in the resulting image. With Tut's entire body similarly recorded, a team of specialists in radiology, forensics, and anatomy began to probe the secrets that the winged goddesses of a gilded burial shrine protected for so long.

The night of the scan, workmen carried Tut from the tomb in his box. Like pallbearers they climbed a ramp and a flight of stairs into the swirling sand outside, then rose on a hydraulic lift into the trailer that held the scanner. Twenty minutes later two men emerged, sprinted for an office nearby, and returned with a pair of white plastic fans. The million-dollar scanner had quit because of sand in a cooler fan. "Curse of the pharaoh," joked a guard nervously.

Eventually the substitute fans worked well enough to finish the procedure. After checking that no data had been lost, the technicians turned Tut over to the workmen, who carried him back to his tomb. Less than three hours after he was removed from his coffin, the pharaoh again rested in peace where the funerary priests had laid him so long ago.

Back in the trailer a technician pulled up astonishing images of Tut on a computer screen. A grey head took shape from a scattering

of pixels, and the technician spun and tilted it in every direction. Neck vertebrae appeared as clearly as in an anatomy class. Other images revealed a hand, several views of the rib cage, and a transection of the skull. But for now the pressure was off. Sitting back in his chair, Zahi Hawass smiled, visibly relieved that nothing had gone seriously wrong. "I didn't sleep last night, not for a second," he said. "I was so worried. But now I think I will go and sleep."



Mural in King Tut's tomb showing King Tut with Osiris, the god of the afterlife

By the time we left the trailer, descending metal stairs to the sandy ground, the wind had stopped. The winter air lay cold and still, like death itself, in this valley of the departed. Just above the entrance to Tut's tomb stood Orion — the constellation that the ancient Egyptians knew as the soul of Osiris, the god of the afterlife — watching over the boy king.

(Source: National Geographic, Vol 207, No. 6)

Understanding the text

- 1. Give reasons for the following.
 - (i) King Tut's body has been subjected to repeated scrutiny.
 - (ii) Howard Carter's investigation was resented.
 - (iii) Carter had to chisel away the solidified resins to raise the king's remains.
 - (iv) Tut's body was buried along with gilded treasures.
 - (v) The boy king changed his name from Tutankhaten to Tutankhamun.
- 2. (i) List the deeds that led Ray Johnson to describe Akhenaten as "wacky".
 - (ii) What were the results of the CT scan?
 - (iii) List the advances in technology that have improved forensic analysis.
 - (iv) Explain the statement, "King Tut is one of the first mummies to be scanned in death, as in life..."

Talking about the text



Discuss the following in groups of two pairs, each pair in a group taking opposite points of view.

- 1. Scientific intervention is necessary to unearth buried mysteries.
- 2. Advanced technology gives us conclusive evidence of past events.
- 3. Traditions, rituals and funerary practices must be respected.
- 4. Knowledge about the past is useful to complete our knowledge of the world we live in.

Thinking about language

1. Read the following piece of information from *The Encyclopedia of Language* by David Crystal.

Egyptian is now extinct: its history dates from before the third millennium B.C., preserved in many hieroglyphic inscriptions and papyrus manuscripts. Around the second century A.D., it developed into a language known as Coptic. Coptic may still have been used as late as the early nineteenth century and is still used as a religious language by Monophysite Christians in Egypt.

- 2. What do you think are the reasons for the extinction of languages?
- 3. Do you think it is important to preserve languages?
- 4. In what ways do you think we could help prevent the extinction of languages and dialects?

Working with words

1. Given below are some interesting combinations of words. Explain why they have been used together.

(i)	ghostly dust devils	(vi)	dark-bellied clouds
(ii)	desert sky	(vii)	casket grey
(iii)	stunning artefacts	(viii)	eternal brilliance
(iv)	funerary treasures	(ix)	ritual resins
(v)	scientific detachment	(x)	virtual body

2. Here are some commonly used medical terms. Find out their meanings.

CT scan	MRI	tomography
autopsy	dialysis	ECG
post mortem	angiography	biopsy

Things to do

1. The constellation Orion is associated with the legend of Osiris, the god of the afterlife.

Find out the astronomical descriptions and legends associated with the following.

- (i) Ursa Major (Saptarishi mandala)
- (ii) Polaris (Dhruva tara)
- (iii) Pegasus (Winged horse)
- (iv) Sirius (Dog star)
- (v) Gemini (Mithuna)
- 2. Some of the leaves and flowers mentioned in the passage for adorning the dead are willow, olive, celery, lotus, cornflower. Which of these are common in our country?
- 3. Name some leaves and flowers that are used as adornments in our country.



Understanding the text

Factual comprehension: giving reasons, listing

Talking about the text

Debate on issues raised in the text related to rediscovering history with the help of technology; respect for traditions (reflection on issues)

Thinking about language 🗔

Extinction of language and language preservation

Working with words

Understanding adjectival collocations; common medical terms

Things to do

- Relating astronomical facts and legends (across the curriculum)
- Finding out botanical correlates

The Laburum Top

Ted Hughes

The Laburnum top is silent, quite still In the afternoon yellow September sunlight, A few leaves yellowing, all its seeds fallen.

Till the goldfinch comes, with a twitching chirrup A suddenness, a startlement, at a branch end. Then sleek as a lizard, and alert, and abrupt, She enters the thickness, and a machine starts up Of chitterings, and a tremor of wings, and trillings — The whole tree trembles and thrills. It is the engine of her family. She stokes it full, then flirts out to a branch-end Showing her barred face identity mask

Then with eerie delicate whistle-chirrup whisperings She launches away, towards the infinite

And the laburnum subsides to empty.

laburnum: a short tree with hanging branches, yellow flowers and poisonous seeds

goldfinch: a small singing bird with yellow feathers on its wings

Find out

1. What laburnum is called in your language.

2. Which local bird is like the goldfinch.

Think it out

- 1. What do you notice about the beginning and the ending of the poem?
- 2. To what is the bird's movement compared? What is the basis for the comparison?
- 3. Why is the image of the engine evoked by the poet?
- 4. What do you like most about the poem?
- 5. What does the phrase "her barred face identity mask" mean?

Note down



- 1. the sound words
- 2. the movement words
- 3. the dominant colour in the poem.

List the following

- 1. Words which describe 'sleek', 'alert' and 'abrupt'.
- 2. Words with the sound 'ch' as in 'chart' and 'tr' as in 'trembles' in the poem.
- 3. Other sounds that occur frequently in the poem.

Thinking about language -

Look for some other poem on a bird or a tree in English or any other language.

Try this out

Write four lines in verse form on any tree that you see around you.

----Notes-----

This poem has been placed after a text which has references to names of plants for thematic sequencing.

Understanding the poem

- Glossing of 'laburnum' and 'goldfinch'
- Factual understanding
- Movement of thought and structuring (poetic sensitivity)
- Focus on figures of speech and imagery used (poetic sensitivity)
- Attention to sounds, lexical collocations (poetic sensitivity)

Thinking about language

- Finding equivalents in other languages (multilingualism)
- Relating to thematically similar poems in other languages (multilingualism)
- Attempt at creativity

The Vice of the Rain

Walt Whitman

And who art thou? said I to the soft-falling shower,

Which, strange to tell, gave me an answer, as here translated:

I am the Poem of Earth, said the voice of the rain,

Eternal I rise impalpable out of the land and the bottomless sea,

Upward to heaven, whence, vaguely form'd, altogether changed, and yet the same,

I descend to lave the droughts, atomies, dust-layers of the globe,

And all that in them without me were seeds only, latent, unborn;

And forever, by day and night, I give back life to my own origin,

And make pure and beautify it;

(For song, issuing from its birth-place, after fulfilment, wandering Reck'd or unreck'd, duly with love returns.)

impalpable: something that cannot be touched

lave: wash; bathe
atomies: tiny particles

latent: hidden

34 Hornbill

Think it out

I. There are two voices in the poem. Who do they belong to? Which lines indicate this?

- 2. What does the phrase "strange to tell" mean?
- 3. There is a parallel drawn between rain and music. Which words indicate this? Explain the similarity between the two.
- 4. How is the cyclic movement of rain brought out in the poem? Compare it with what you have learnt in science.
- 5. Why are the last two lines put within brackets?
- 6. List the pairs of opposites found in the poem.
- II. Notice the following sentence patterns.
 - 1. And who art thou? said I to the soft-falling shower.
 - 2. I am the Poem of Earth, said the voice of the rain.
 - 3. Eternal I rise
 - 4. For song ... duly with love returns

Rewrite the above sentences in prose.

III. Look for some more poems on the rain and see how this one is different from them.



This is a nature poem celebrating the coming of the rain.

Understanding the poem

- Voices in the poem
- Sense of the poem
- Relating to the process of rainfall scientifically (across the curriculum)
- Noticing sentence structure in poems
- Comparison with other rain poems