"To speak the name of the dead is to make him live again"
Ancient Egypt civilization lasted over 3000 years. Egyptian monuments have been around so long that their monuments were ancient even in Greek and Roman times…. but one key question has always loomed: how and why were these monuments built?
The Pyramids are one of the **Seven Wonders of the Ancient World**. Decorating the Nile waterfront they loom over passing boats. They are the lasting reminders of the Pharaohs that once ruled Egypt and of the power that the nation had.

There are More than eighty (80) pyramids were built around the Nile from 1600 - 2700 BC
It aligns almost perfectly with a compass
A meridian running through the pyramids divides the continents and oceans into two equal halves.
The Pyramid lies in the exact center of all the land area of the world, dividing the earth's land mass into approximately equal quarters.

The north-south axis is the longest land meridian, and the east-west axis is the longest land parallel on the globe. There is obviously only one place that these longest land-lines of the terrestrial earth can cross, and it is at the Great Pyramid!
It stands 147 meters high
Pyramid of Giza: Look at the Stats!

• Total of 2.3 – 2.6 million blocks of limestone were cut out of the quarries, dressed and transported and fitted together

• Each block weighs average 2.5 tons – 15 tons

• 2.5 tons = approximately 25 refrigerators

• Seam between blocks were very fine, about 1 mm on all 6 sides

• Only error of less than 0.1% in construction of Great Pyramid

• Estimated Construction: 20-80 years
Great Pyramids of Giza: Size Stats

- 920 meters around

- Nearly 10 football fields could fit within the base.

- The area of the base is also equal to about seven city blocks in New York City or about 13 acres.
The rocky structure where the pyramids stand had to be leveled (south east corner is just 1/3 inch higher than northwest corner!)

- Great Pyramid is a sundial. The shadow fell on pavements and the pavements were marked with the day of the year and the hour of the day.

- Great Pyramid is a giant calendar. The Egyptians could use it to measure the length of a year to three decimal places… 365.24
Did you know?

- The surface of blocks did not crack along layers after thousands of years of exposure to wind and sun.

- The casing stones, 144,000 in all, were so brilliant that they could literally be seen from the mountains of Israel hundreds of miles away. On bright mornings and late afternoons, sunlight reflected by this vast mirrored surface of 5-1/4 acres distinguished the Pyramid as being visible from the moon.

• Priests of Pharaoh Khufu convinced him to pay for all the bills of the Great Pyramid!
In the heart of the burial chamber, you'll be 20 m (66 ft) beneath the foundation with over 6 million tons of stone piled above you!

- Burial chamber filled with riches for Pharaoh to take into afterlife

- Inside the pyramids there were false doors, staircases and corridors

- In the King’s Chamber of the Great Pyramid, laid a stone coffin that contained nothing! King Khufu had never been placed in his burial place!
Pi?

- The area of the base of the pyramid divided by twice its height gives the figure of pie (3.14)

- The height of the Pyramid's apex is 5,812.98 inches, and each side is 9,131 inches from corner to corner (in a straight line). If the circumference of the Pyramid is divided by twice its height (the diameter of a circle is twice the radius), the result is 3.14159, which just happens to be \( \pi \). Incredibly, this calculation is accurate to six digits. So the Pyramid is a square circle, and thus \( \pi \) was designed into it 4,600 years ago. Pi is demonstrated many times throughout the Pyramid.
Power of the Pyramid Shape

- Scientists experimented by making model pyramids and placing different types of food in them (usually food that goes bad quickly). The food stayed in good condition much longer than expected….

- 1959, engineer Karel Drbal did a similar experiment with blunt razor blades. To his astonishment, Drbal found the blades actually became sharp again when stored in pyramid. He sold his idea to a company who successfully sold plastic models of pyramids.
Small Group Discussion

- Pyramids of Giza: how can one explain all the intricacies involved in the Pyramids of Giza?
- What is the purpose of the Sphinx?
- How were obelisks raised? Where are most of the obelisks from Ancient Egypt located today?
- Analyze: Why is there great mystery behind many pieces of architecture from Ancient Egypt?
- What effect has Egyptian architecture had on the world?
"I'll say it's mind-boggling. To think ... the wives of the blokes who built that probably saw even less of their husbands than we do."

"You do as you're told, we pay as we please. You work like a slave, we punish at random. That, in a nutshell, is our corporate culture."