





Grades: 9-12

Secrets of the Dead: "Scanning the Pyramids"

Travel with the scientific team granted unprecedented access by the Egyptian government to solve a 4,500-year-old mystery: what lies within the Great Pyramid at Giza. Using non-invasive technologies, they make a historic discovery.

After watching this episode, choose from the following questions and/or tasks to extend your learning

- Why has the Great Pyramid of Khufu fascinated people for centuries?
- What lies within the heart of this pyramid?
- What tools were used to explore every corner of the pyramid?
- What is Muography, and how did it help scientists see inside the Great Pyramid?
- What discovery made news around the world?
- What did the global team of Scan Pyramids discover during their two-year exploration?
- How did the discoveries at the Great Pyramid of Khufu change the way in which historians view the ancient Egyptian culture?
- Why is it important to learn about the long past?
- What events of today might influence the discoveries of tomorrow?
- Compare the geometry of the pyramids with the shape of the chambers. Why was that shape used over others, do you think? Justify your reasoning.
- Research the Kings and Queens of Egypt. What can their reign tell us about the beliefs and culture of ancient Egypt?
- What is the golden ratio and how is it used in architecture?
- Why are artists and architects drawn to the golden ratio when creating artworks?
- Explore ancient Egyptian art and hieroglyphics. How would you translate the hieroglyphs found? Recreate the art and create your own hieroglyphs.

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Technology permits us to accomplish things in less invasive and more timely







ways. In this case, it was used to preserve the pyramid's site while still gaining access to information.

- How else might technology be used to solve problems in your day-to-day life?
 - Think of a new way to use a current technology to solve a common problem.
 - Test your idea to see if it works.
 - If it doesn't work, what would it take to make it work? Create a prototype of your solution.
 - If it does work, share your idea with friends/family and encourage them to try your idea.