

Curriculum Unit Title

Eye on the Sky: Man's Quest for the Stars

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KEY LEARNING, ENDURING UNDERSTANDING, ETC.

- Ancient inventors made meaningful contributions to modern society and technology
- Inventors of the Renaissance are still considered to be some of history's most influential individuals
- Man's continued exploration of life beyond Earth includes the possibilities of living in space and colonizing Mars

ESSENTIAL QUESTION(S) for the UNIT

How have people used the process of science to understand the world around them and to investigate questions about the Earth, Sun and outer space?
How does technology extend the human senses and enhance understanding?

CONCEPT A

Inventions arise out of necessity.

CONCEPT B

Ancient civilizations made extremely important contributions to modern life and technology

CONCEPT C

Man's curiosity about space may become a necessity if Earth can no longer support life.

ESSENTIAL QUESTIONS A

How have people used the process of science to understand their world and to investigate questions about the Earth, Sun and outer space?

ESSENTIAL QUESTIONS B

How did ancient inventors create intricate machinery without the benefit of sophisticated tools and technology?

ESSENTIAL QUESTIONS C

How and why does Man strive to find and explore habitable planets?

VOCABULARY A

Leonardo DaVinci, Galileo Galilei, Claudius Ptolemy, Copernicus, Johannes Kepler, Optical telescope, star navigation, comet, satellite, galaxy, nebula, Renaissance

VOCABULARY A

DaVinci, Renaissance, Medici, Galileo, al-Jazari, Sir Isaac Newton, Albert Einstein, Edwin Hubble, Antikythera Mechanism, medieval robots, clepsydra,

VOCABULARY A

International Space Station, SpaceX, orbit, asteroid, radiation, space shuttle, space probe, lunar module, habitable planets, colonization

ADDITIONAL INFORMATION/MATERIAL/TEXT/FILM/RESOURCES

<http://space.about.com/od/astronomyspacehistory/a/timelinea.html>

James, Peter, and Nick Thorpe. *Ancient Inventions*. New York, NY: Ballantine Books, 2015

<http://www.makemarshome.com/>.

<http://www.NASA.gov/>.

<http://www.da-vinci-inventions.com/>