
Extensions:

Students use the internet or library to discover more about scientists and inventors. Develop a timeline of dates that reflects when each scientist lived. List the scientific discoveries that occurred during this timeline.

Identify the most important discovery for each scientist and tell why it is important.

Work math problems from the "Fall Into Mathematics" curriculum, found at

<http://spacelink.msfc.nasa.gov/Instructional.Materials/Curriculum.Support/Mathematics/Fall.Into.Mathematics/.index.html>

References / Resources:

<http://galileo.imss.firenze.it/museo/b/egalilg.html>

<http://scienceworld.wolfram.com/biography/Copernicus.html>

<http://sirius.phy.hr/~dpaar/fizicari/xkepler.html>

<http://encarta.msn.com/find/Concise.asp?ti=04279000>

<http://scienceworld.wolfram.com/biography/Goddard.html>

<http://www.firstscience.com/site/articles/wheels.asp>

<http://encarta.msn.com/find/Concise.asp?ti=029B7000>

<http://www.csr.utexas.edu/info/staff/tapley.html>

WHO IS THAT MYSTERY PERSON?

There are nine mystery explorers or scientists described below. Use the clues to figure out who is who.

- 1) Use the clues provided to learn about the person's life
- 2) Unscramble the person's name to learn his identify
- 3) Find the person's picture, cut it out and paste it into the photo ID section.

#	LIFE CLUES	SCRAMBLED NAME	PHOTO ID
1.	<ul style="list-style-type: none">• I lived from 1564 to 1642.• Spent most of my life in Pisa, Italy.• In 1609 I used mathematics and technical skills to improve upon the spyglass to build a telescope.• I was sentenced to life imprisonment in 1633, because of my belief in a heliocentric, sun-centered universe.• I used an inclined plane to study gravity.• I discovered that all mass, regardless of weight, fall at the same rate.	aegillo aegiill	paste picture here
2.	<ul style="list-style-type: none">• I lived from 1642 to 1727 in England.• My father was a farmer and lord of a minor manor.• I was the Chair of Mathematics at Cambridge.• I wrote laws about motion.• I was the Warden of the Mint for England and was knighted for seriating the edges of coins.• The snack food that bears my name has nothing to do with me.	irs aacis ennotw	paste picture here

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4.	<ul style="list-style-type: none"> • I lived from 1571-1630. • I was the first to correctly explain planetary motion; thereby, becoming founder of celestial mechanics and the first "natural laws" in the modern sense being universal, verifiable and precise. • I worked with Tycho Brahe. • I was the first to formulate eyeglasses designed for nearsightedness and farsightedness. • I was the first to describe real, virtual, upright and inverted images and magnification. • I was the first to explain the principles of how a telescope works. • I was the first to discover and describe the properties of total internal reflection. 	aehjnnos eeklpr	paste picture here

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6.	<ul style="list-style-type: none"> • I was born in 1882 and lived until 1945. • As a young man I dreamed of traveling to Mars. • I taught physics at Clark University. • I worked on rocket propulsion, guidance and fuel. • Some people call me the "Father of the Space Age." Others refer to me as the "Father of Modern Rocket Propulsion." 	beorrt adddgor	paste picture here
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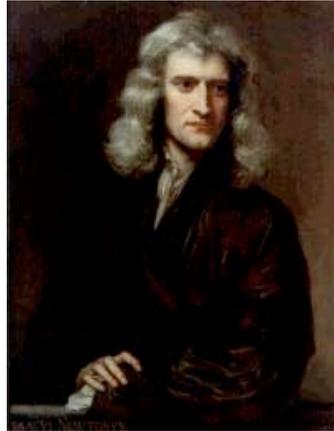
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9.	<ul style="list-style-type: none"> • I am the Principal Investigator for GRACE. • My research interests focus on the application on nonlinear parameter estimation methods to determine crustal motion, Earth rotation, the Earth's geopotential, and ocean and atmosphere circulations; as well as the interactions between the aforementioned systems. 	bnory aelpty	paste picture here
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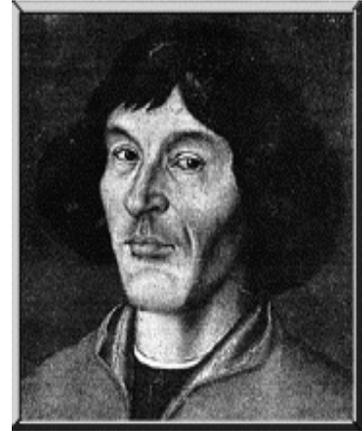
PHOTO IDS



GALILEO GALILEI



SIR ISSAC NEWTON



NICOLAUS COPERNICUS



JOHANNES KEPLER



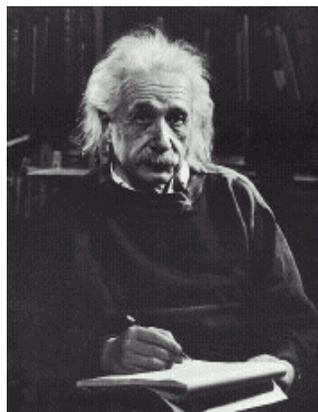
CHRISTOPHER COLUMBUS



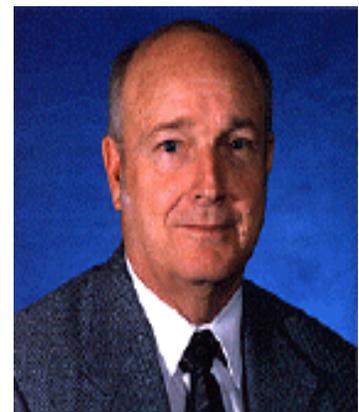
ROBERT GODDARD



WERNHER VON BRAUN



ALBERT EINSTEIN



BYRON TAPLEY



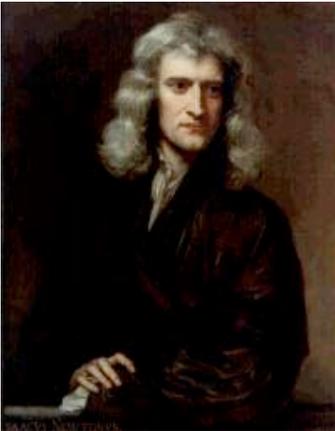
EMILY MOREY-HOLTON

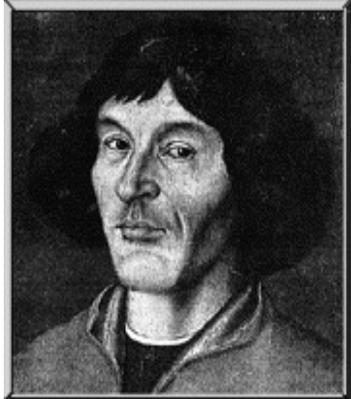


SALLY RIDE

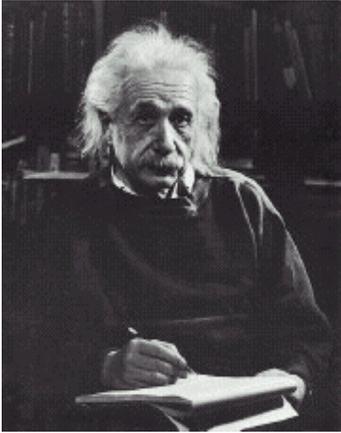
ANSWER KEY

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