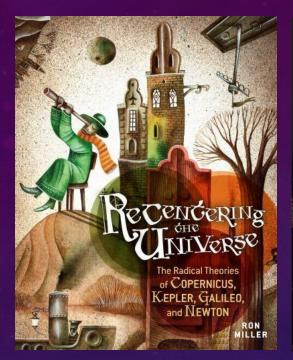


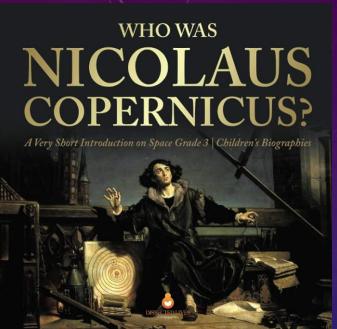


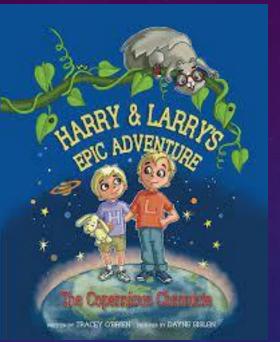


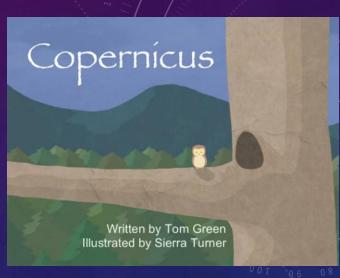
COPERNICUS LEGACIES IN ANGLOPHONE CHILDREN'S LITERATURE

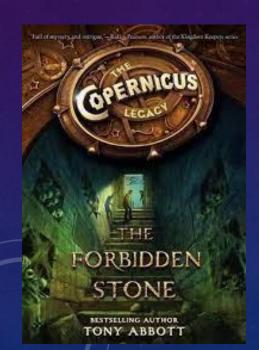
JUSTYNA DESZCZ-TRYHUBCZAK
INSTITUTE OF ENGLISH STUDIES, UNIVERSITY OF WROCŁAW
CENTER FOR YOUNG PEOPLE'S LITERATURE & CULTURE
CENTER FOR RESEARCH ON CHILDREN'S AND YOUNG ADULT LITERATURE

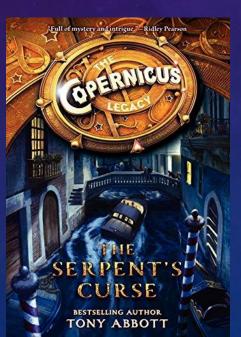


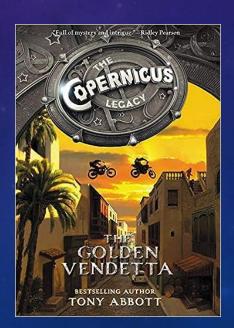


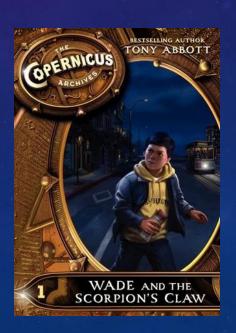


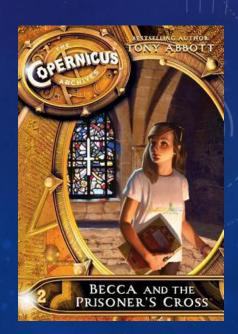












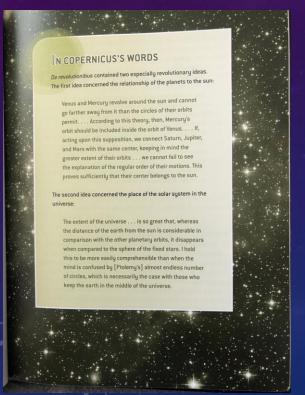
Childrens culture as

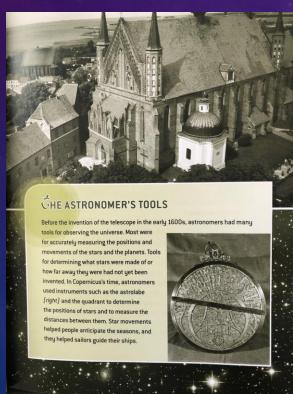
- modeling young readers' perceptions of scientists and science
- contributing to critical literacy's project of inviting children to the exercise of thinking about information rather than receiving it passively (Sanders 2017)
- ❖ inviting reflection on what it means to represent an adult life from the past to a contemporary child; on what it means to inspire children today; and on what it means to think of the child's agency in the future

THE BIOGRAPHEMES

points of contact between the reader and the historical figure -- "temporal tunnels or wormholes, through which the future-bound child and the past adult are allowed to interact" (Beauvais 2020)

RECENTERING THE UNIVERSE: THE RADICAL THEORIES OF COPERNICUS, KEPLER, GALILEO, AND NEWTON (2014) BY RON MILLER





THE SCIENTIFIC METHOD

The scientific method includes five basic steps:

- Observe and describe a phenomenon.
- 2. Create a hypothesis to explain the phenomenon.
- 3. Use the hypothesis to predict the existence of other phenomena.
- Conduct experiments to test the predictions. Experiments must be performed properly and conducted by several independent experimenters.
- If the experiments support the hypothesis, it may become a theory
 or a law. If the experiments do not support the hypothesis, it must be
 rejected or modified.

Scientists often say that theories can never be proved—only disproved.

The possibility always exists that some new observation or experiment will conflict with a previously accepted theory.

realms of human experience. Demanding that they be combined detracts from the glory of each."

Coyne suggested that Galileo would agree too. "He said that Scripture is intended to teach us how to go to heaven, and not how the heavens go. It's a beautiful phrase, and it says that Scripture is not teaching science. Scripture is made up of many literary forms: Some of it's poetry, some of it's history, but none of it's science. Galileo really understood that and tried to get others to understand it. He was a better theologian than any of them."

GLOSSARY

alchamg: an ancient philosophic and experimental practice related to the effort to change common substances into pure elements. Many alchemists focused on trying to make a substance that can turn lead into gold and to cure humans of

astrology: the study of celestial bodies to gain information about human affairs.
Astrology is a pseudoscience.

she ecientific study of the univer

chromatic aberration: the visual effect that occurs when a lens breaks up white light into different colors. Objects viewed through the lens appear with fuzzy fringes of color between dark and light areas.

constellation: a group of stars that humans view as a pattern. In ancient times, constellations were thought to influence human behavior and served as practical

cosmology: a philosophical or scientific view of the structure of the universe

Deism: the belief that God created the universe and then abandoned it, assuming no control over life or influence on natural phenomena

doctrine: an official teaching or position on an issue

ellipse: a flattened circle. A circle has a single center point, while an ellipse has two center points. Each of these is called a focus.

fixed stars: stars that are so distant from Earth that they appear fixed in place, even as Earth moves through space

foci: the two center points of an ellipse

geocentric: Earth-center

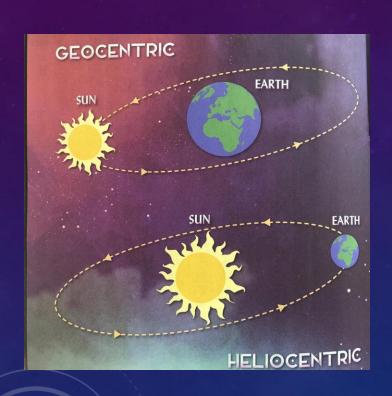
gravity: a force of attraction that exists naturally between all material objects. Isaac Newton developed the idea of gravity as the force responsible for keeping the moon in its orbit around Earth and the planets in their orbits around the sun.

heliocentric: sun-centere

heretic: someone who publicly disagrees with established religious teachings

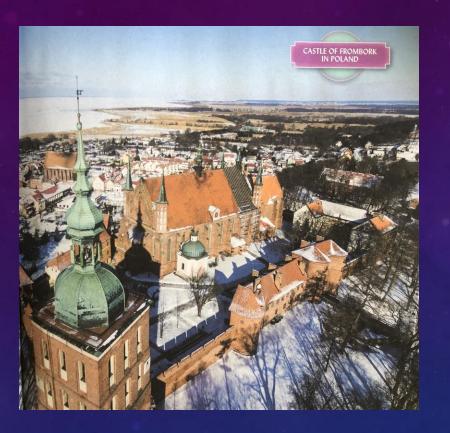
horoscope: a diagram of the sun, moon, stars, and planets used to predict events in a person's life

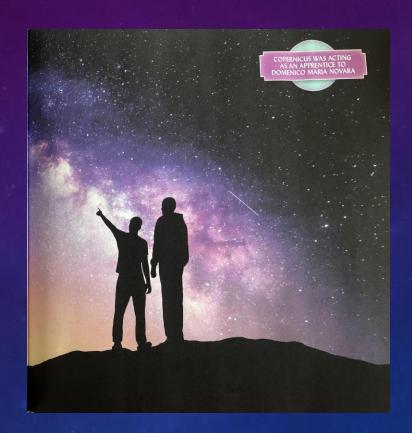
WHO WAS NICOLAUS COPERNICUS: A VERY SHORT INTRODUCTION ON SPACE GRADE 3 / CHILDREN'S BIOGRAPHIES (2019)

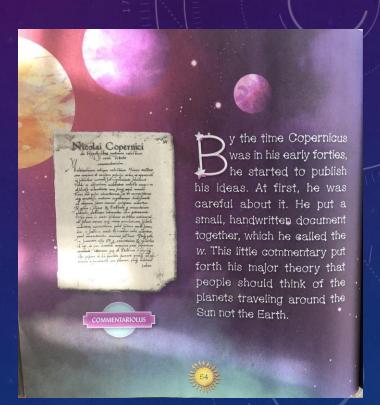






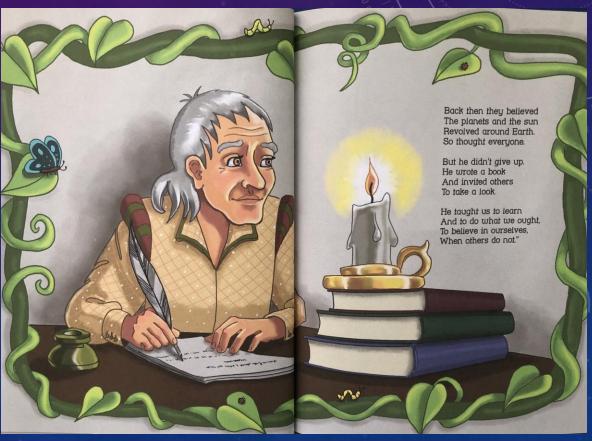




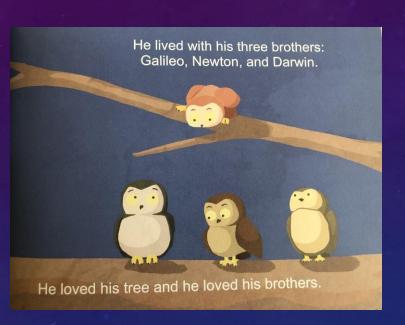


HARRY & LARRY'S EPIC ADVENTURE: THE COPERNICUS CHRONICLE BY TRACEY O'BRIEN (2021)





COPERNICUS (2019) WRITTEN BY TOM GREEN AND ILLUSTRATED SIERRA TURNER



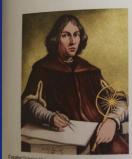


The Northern Saw-whet Owl is one of the smallest owls in North America. It weighs less than 4 ounces, owls in North America. It weighs less than 4 ounces, or about the same as an adult robin. The Saw-whet or about the same as an adult robin. The Saw-whet is nocturnal and shy, s difficult to study, because it is nocturnal and shy, s difficult to study, because it is nocturnal and shy, and has unusual migration habits. It lives in forests, and has unusual migration habits.

Its call is a fast "too-too-too" and some think this sound is like the sound of a saw being sharpened on a whetting stone, which may be how it got its name.



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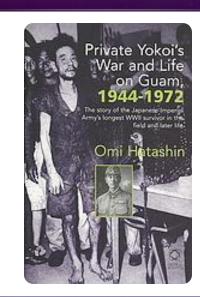
Nicolaus Copernicus was a Polish astronomer. He was born in 1473 and died in 1543. He proposed that the sun was the center point, around which the planets revolved. This idea was called "heliocentric," or "sun-centered." This thought went against the ideas of respected theorists, including Aristotle and Ptolemy.

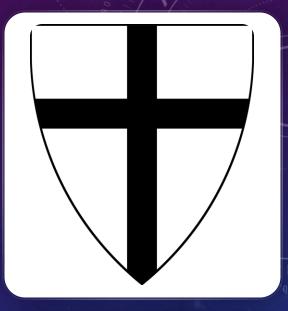
This was a brave idea in a time when most believed the Earth was the center. He was even threatened with being sent to prison if he didn't renounce his heliocentric theory and agree that the Earth was in the center! His willingness to share his work and ideas paved the way for other progressive scientific thinkers like Galileo and Newton.

THE COPERNICUS LEGACY (2014) AND THE COPERNICUS ARCHIVES (2014-2015) BY TONY ABBOTT



Ptolemaic armillary sphere









Museo Astronomico Copernicano, Rome

HISTORICAL TRUTH VS. FICTION?

❖ An aesthetic of believability (Beauvais 2020)

❖ Young readers' capability for scientific constructivism: where the books about Copernicus invite and do not invite questions (Sanders 2017) – about representing the past, about the constructedness and emplotments of historical and scientific accounts; about who creates knowledge and how scientific knowledge evolves historically; about how authors find and select information they include in their books



WHAT IS THE YOUNG READER TO DO WITH LITERARY PORTRAITS OF COPERNICUS?

- Didactic content mixed with the intention to elicit young readers' admiration for Copernicus
- Centrality of the confrontations between religion and science and Copernicus's courage and relentlessness in questioning the established ideas
- Awareness of social and scientific continuities across time and space
- Copernicus as a superhero impossible to follow? Limited gender diversity
- The value of curiosity, wonder, and love of learning in test-driven education and the rapidly changing job market

REFERENCES

SECONDARY SOURCES

Barthes, Roland. Sade, Fourier, Loyola. Translated by Richard Miller. Berkeley and Los Angeles: University of California Press, 1976.

- Beauvais, Clémentine. Bright Pasts, Brighter Futures: Biographies for Children in the Early Twenty-First Century. In: op de Beeck, N. (eds) Literary Cultures and Twenty-First-Century Childhoods. Literary Cultures and Childhoods. Palgrave Macmillan, Cham, 2020, https://doi-org.ezproxy.lib.gla.ac.uk/10.1007/9
- Dagher, Zoubeida R., and Danielle J. Ford. "How are scientists portrayed in children's science biographies?" Science & Education, vol. 14, no. 3-5, 2005, pp. 377-393.78-3-030-32146-8_4.
- Pauwels, Frauke. "Reading as a Scientist: Children's Nonfiction through a Cognitive Lens." Children's Literature Association Quarterly, vol. 44, no. 4, 2019, pp. 432-446.
- Sanders, Joe Sutliff. A Literature of Questions: Nonfiction for the Critical Child. University of Minnesota Press, Minneapolis, 2017, doi:10.5749/j.ctt1pwt67w.
- Zarnowski, Myra, and Susan Turkel. "Creating New Knowledge: Books that Demystify the Process." *Journal of Children's Literature*, vol. 38, no. 1, 2012, pp. 28-34..