

Unit 1 Outline — Intro. to Steven Hawking's Universe

Text Readings (Steven Hawking's Universe)

- Introduction and Chapters 1 & 2

Handouts

- A very brief history of science and the universe
- Current science events articles
- True or False?
- Galileo article

Unit objectives (This is what I want you to know for the test.)

1. Describe the role that science plays in our society.
2. Understand that scientific truths are arrived at through experimentation and that all science facts must have a proof for falsehood.
3. Explain the difference between science and technology. Give examples of each.
4. Know the ways in which ALS has negatively impacted Steven Hawking's life.
5. Defend the notion that ALS has also had some positive impacts on his career as a cosmologist.
6. Explain why Steven Hawking feels that his birth date is significant.
7. Explain the Ptolemeic system and what "the wanderers" were.
8. Explain the Copernican system and why Galileo was indicted for believing it.
9. Repeat Eratosthenes' experiment to determine the circumference of the Earth.

Pennsylvania Standards addressed in this unit:

Reading 1.1 – 1.3, 1.7

Mathematics 2.1 – 2.11

Science & Technology

- 3.1.12.C – Assess and apply patterns in science and technology.
- 3.1.12.B – Apply concepts of models as a method to predict and understand science and technology.
- 3.1.12.D – Analyze scale as a way of relating concepts and ideas to one another by some measure.
- 3.2.12.A – Evaluate the nature of scientific and technological knowledge.
- 3.2.12.B – Evaluate experimental information for appropriateness and adherence to relevant science processes.
- 3.7.12.B – Evaluate appropriate instruments and apparatus to accurately measure materials and processes.

Get help when you need it.

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Mr. Flint arrives at school by 7:00am, stays after school until 3:00pm and can stay later if needed.

Get a pass from Mr. Flint in advance to come in to school early or to attend Activity Period.