

Galileo

True/False Questions

1. **Galileo was born in Florence, Italy.**
Answer: False. (He was born in Pisa, Italy.)
2. **Galileo studied medicine at the University of Pisa before focusing on mathematics and physics.**
Answer: True.
3. **Galileo discovered four moons orbiting the planet Jupiter.**
Answer: True.
4. **The Catholic Church supported Galileo's ideas about the heliocentric theory.**
Answer: False. (The Catholic Church opposed Galileo's ideas and put him on trial.)
5. **Galileo remained under house arrest until his death.**
Answer: True.

Open-Ended Questions

1. **Where and when was Galileo Galilei born?**
Answer: Galileo Galilei was born on February 15, 1564, in Pisa, Italy.
2. **What subjects did Galileo first study at the University of Pisa, and why did he change his focus?**
Answer: Galileo first studied medicine at the University of Pisa, but he changed his focus to mathematics and physics because he was more interested in these subjects.
3. **What discovery did Galileo make when observing a lamp swinging in Pisa Cathedral?**
Answer: Galileo discovered the law of the pendulum, noting that the lamp took the same amount of time to swing back and forth, regardless of the distance it swung.
4. **What did Galileo observe on the surface of the moon with his telescope?**
Answer: Galileo observed that the surface of the moon was not smooth but was covered with mountains and craters.
5. **Why was Galileo's observation of the phases of Venus important?**
Answer: The observation of the phases of Venus supported the heliocentric theory, showing that the planets, including Earth, orbit around the Sun.
6. **What theory did Galileo support that caused controversy with the Catholic Church?**
Answer: Galileo supported the heliocentric theory, which stated that the Earth and other planets orbit around the Sun.
7. **What happened to Galileo after he published his book "*Dialogue Concerning the Two Chief World Systems*"?**
Answer: After publishing the book, Galileo was put on trial by the Catholic Church for heresy and was eventually placed under house arrest.
8. **How did Galileo spend his time while under house arrest?**
Answer: While under house arrest, Galileo continued to write and study in secret, working on his scientific ideas.

9. **What book did Galileo write during his house arrest, and what was it about?**

Answer: During his house arrest, Galileo wrote "*Two New Sciences*," which was about the study of motion and the strength of materials.

10. **How is Galileo remembered today, and what is his legacy?**

Answer: Galileo is remembered as one of the greatest scientists of all time, known as the "father of modern science." His legacy includes his contributions to the scientific method, his discoveries in astronomy, and his courage in standing up for his beliefs.