

name: class: date:

Machines and Minds Transforming the World



The Scientific Revolution, a period of great _____ in the way people viewed the world and their place in it, transformed society in many ways. During this era, the study of _____ became a crucial part of scientific exploration, leading to significant advancements in technology and industry. One of the key figures of this period was _____ Newton, whose laws of motion and universal gravitation laid the groundwork for classical mechanics. His work showed how objects in the universe move and interact with each _____, providing a mathematical explanation for both earthly and celestial phenomena. The invention of the _____ allowed astronomers like Galileo Galilei to observe the heavens in unprecedented detail, challenging long-held beliefs about the cosmos. This era also saw the development of the _____ engine, which would later power the Industrial Revolution and change the world's economic landscape forever. The principles of mechanics applied in these engines helped to understand energy, work, and the properties of gases and _____. Meanwhile, scientists like Robert Hooke were studying the properties of materials and the behavior of _____, which contributed to the development of the theory of _____. The impact of mechanics during the Scientific Revolution was not just limited to the physical sciences; it also influenced philosophy, leading to a new way of thinking about the natural world and _____ knowledge. As people began to understand the laws that govern the physical world, they also started to see the possibility of improving their own lives through technology and _____. This period of history shows how the pursuit of scientific knowledge, driven by curiosity and the desire to solve practical problems, can lead to profound changes in society.

change

elasticity

human

steam

liquids

springs

other

innovation

mechanics

Isaac

telescope