name: class: date:

Mathematics and the Scientific Revolution

1. Fill in the gaps with the right words!
2. Scan the QR code to check your answers interactively!
3. Copy the text in your exercise book!
4. Formulate the content of the text yourself!
   Use all gap words!

During the Scientific Revolution, _____ became the language of science. This period, which spanned the 16th and 17th _____, saw significant advances in various fields. Scientists like _____ and Newton began to use mathematical formulas to describe the motions of the planets. Before this _____, science was more focused on qualitative descriptions rather than quantitative analysis. The invention of _____ by Newton and Leibniz was a major breakthrough, allowing for the precise calculation of _____. This new tool proved essential in explaining natural phenomena, from the fall of an _____ to the orbits of _____. The shift towards mathematical precision also led to the development of more accurate _____ and measuring instruments. These innovations made it possible to collect _____ that could be analyzed mathematically, further cementing the role of math in _____. The Scientific Revolution also encouraged the standardization of _____ units, which facilitated the exchange of scientific knowledge across Europe. It was during this _____ that the scientific method, which relies heavily on empirical evidence and mathematical _____, was fully developed. This approach has become the foundation of modern science, where _____ and mathematics go hand in hand.

apple	science	measurement	experimentation	mathematics	centuries			
analysis	planets	telescopes	data	Galileo	time	era	calculus	change

Reference: https://materials.school/educational-activities/task-collection/art-and-culture/mathematics-and-scientific-revolution (created with ChatGPT)