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the history of science covers the development of science from ancient times to the present it encompasses all three major branches of science natural social and formal this article provides a broad survey of the development of science as a way of studying and understanding the world from the primitive stage of noting important regularities in nature to the epochal revolution in the notion of what constitutes reality that occurred in 20th century physics evolution theory in biology postulating that the various types of living things on earth have their origin in other preexisting types and that the distinguishable differences are due to modifications in successive generations evolution is the change in the heritable characteristics of biological populations over successive generations it occurs when evolutionary processes such as natural selection and genetic drift act on genetic variation resulting in certain characteristics becoming more or less common within a population over successive generations the scientific revolution 1500 1700 which occurred first in europe before spreading worldwide witnessed a new approach to knowledge gathering the scientific method which utilised new technologies like the telescope to observe measure and test things never seen before scientific revolution is the name given to a period of drastic change in scientific thought that took place during the 16th and 17th centuries it replaced the greek view of nature that had dominated science for almost 2 000 years the scientific revolution was a series of events that marked the emergence of modern science during the early modern period when developments in mathematics physics astronomy biology including human anatomy and chemistry transformed the views of society about nature today even most philosophers of science dismiss the claim that there exists a powerful general scientific method the discovery of which explains the scientific revolution and the success of modern science evolution 101 an

introduction to evolution what is evolution and how does it work the history of life looking at the patterns change over time and shared ancestors mechanisms the processes of evolution selection mutation migration and more microevolution evolution within a population speciation how new species arise the scientific revolution was the emergence of modern science during the early modern period when developments in mathematics physics astronomy biology including human anatomy and chemistry transformed societal views about nature evolution 101 an introduction to evolution what is evolution and how does it work the history of life looking at the patterns change over time and shared ancestors mechanisms the processes of evolution selection mutation migration and more microevolution evolution within a population speciation how new species arise darwin and a scientific contemporary of his alfred russel wallace proposed that evolution occurs because of a phenomenon called natural selection in the theory of natural selection organisms produce more offspring than are able to survive in their environment evolution is supported by abundant evidence from many different fields of scientific investigation it underlies the modern biological sciences including the biomedical sciences and has applications in many other scientific and engineering disciplines evolution is a cornerstone of modern science accepted as one of the most reliably established of all facts and theories of science based on evidence not just from the biological sciences but also from anthropology psychology astrophysics chemistry geology physics mathematics and other scientific disciplines as well as behavioral and so our understanding of the genesis and evolution of the universe is one of the great achievements of 20th century science this knowledge comes from decades of innovative experiments and six key inventions of the scientific revolution are the telescope the microscope the pendulum clock the thermometer the barometer the air pump newton s reflecting telescope science museum london cc by 550 000 to 750 000 years ago the beginning of the homo sapiens lineage a facial reconstruction of homo heidelbergensis a popular candidate as a common ancestor for modern humans neanderthals in the century and a half following copernicus two easily discernible scientific movements developed the first was critical the second innovative and synthetic they worked together to bring the

old cosmos into disrepute and ultimately to replace it with a new one human evolution is the lengthy process of change by which people originated from apelike ancestors scientific evidence shows that the physical and behavioral traits shared by all people originated from apelike ancestors and evolved over a period of approximately six million years evolution is a process that results in changes in the genetic material of a population over time evolution reflects the adaptations of organisms to their changing

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