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SCI 609

Astronomy



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PREFACE

Welcome to this course pack designed to guide learners in understanding and appreciating the wonders of Astronomy, the scientific study of celestial bodies, space, and the universe beyond Earth. This material provides a structured and engaging approach to learning Astronomy by integrating its historical foundations, scientific principles, observational techniques, and modern discoveries in a progressive and meaningful way.

Organized into modules that reflect the development of astronomical knowledge—from foundational concepts about Earth and the Solar System to the exploration of stars, galaxies, and cosmological theories—this course pack presents clear learning outcomes, inquiry-based activities, reflective tasks, and practical applications. These components are intended to develop not only scientific understanding and analytical thinking but also curiosity, imagination, and a deeper awareness of humanity's place in the universe.

Beyond the acquisition of scientific concepts, this resource emphasizes the values embedded in the study of Astronomy such as critical thinking, perseverance, environmental awareness, and appreciation of scientific advancement. It also highlights the importance of observation, evidence-based reasoning, and responsible exploration, ensuring that learners engage with scientific inquiry with integrity and wonder.

Ultimately, this course pack aims to cultivate scientifically literate, curious, and globally aware individuals who appreciate Astronomy not only as a field of science but also as a gateway to understanding the beauty, complexity, and vastness of the cosmos. May this serve as your companion in your journey through the universe, inspiring discovery, lifelong learning, and a profound appreciation for the mysteries of space.

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