# Electromagnetic Spectrum And Telescope Webquest Answer Key

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four centuries ago galileo first turned a telescope to look up at the night sky his discoveries opened the cosmos revealing the geometry and dynamics of the solar system today s telescopic equipment stretching over the whole spectrum from visible light to radio and millimetre astronomy through infrared to ultraviolet x rays and gamma rays has again transformed our understanding of the whole universe in this book francis graham smith explains how this technology can be engaged to give us a more in depth picture of the nature of the universe looking at both ground based telescopes and telescopes on spacecraft he analyses their major discoveries from planets and pulsars to cosmology large research teams and massive data handling are necessary but the excitement of discovery is increasingly shared by a growing public who can even join in some of the analysis by remote computer techniques observational astronomy has become international all major projects are now partnerships most notably the square kilometre array which will involve astronomers from over 100 countries and will physically exist in several of them covering the history and development of telescopes from galileo to the present day eyes on the sky traces what happens when humankind looks up

space telescopes are among humankind s greatest scientific achievements of the last fifty years this book describes the instruments themselves and what they were designed to discover about the solar system and distant stars exactly how these telescopes were built and launched and the data they provided is explored only certain kinds of radiation can penetrate our planet s atmosphere which limits what we can observe but with space telescopes all this changed we now have the means to see beyond earth using ultraviolet microwave and infrared rays x rays and gamma rays in this book we meet the pioneers and the telescopes that were built around their ideas this book looks at space telescopes not simply chronologically but also in order of the electromagnetic

spectrum making it possible to understand better why they were made

reprint of the original first published in 1882

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