Light and Optical Systems - Section 1.0 - Quiz

Student Name	
Student Name	Class
1.1 The Challenge of	light
Aristotle's plan to sink the enemy war ships demonstrat A. Light travels in straight lines B. Light can be reflected C. Light can be bent D. Light is a form of energy	ed his understanding of this principle of light
2. Pythagoras' thoughts about light were proven wrong beA. the light beamsB. dark objectsC. in the darkD. shiny objects	cause it was impossible to see
 When light is shone into a mirror, the angle of the incomi beam. This understanding of light was suggested by Ptolemy Aristotle al-Haytham Euclid 	ng beam is equal to the angle of the outgoing
 Sir Isaac Newton is well known for many things. One the actually a mixture of different colors. He was able to der A. prism water glass mirror 	
 Albert A Michelson was able to accurately measure the top. This was a refined measurement of the work of A. Albert Einstein B. Ole Romer C. Euclid D. Isaac Newton 	
1.2 Optical Device	es es
6. Any technology that uses light is called A. a reflecting telescope B. a refracting telescope C. an optical device D. a lens and mirror	
7. A ntonie van Leeuwenhoek used a simple microscope a A. little animalcules B. tiny cells C. miniature vacuoles	and discovered, what he called

D. bacteria armies

8. Microbiology - the study of micro-organisms, began with the invention of these ... A. binoculars B. telescopes C. mirrors D. microscopes 9. In 1608 Hans Lippershey manufactured the very first telescope. This scientist used the discovery of the telescope to discover mountains and craters on the Moon, small objects circling Jupiter, and Venus had phases - just like the Moon. This scientist was ... A. Edwin Hubble B. Galileo Galilei C. Sir Isaac Newton D. Allessandro della Spina 10. The type of telescope that collects light from distant objects and focuses it in the eyepiece is called ... A. retracting B. reflecting C. refracting D. resisting 11. Binoculars are optical devices and are built using two of these types of prisms ... A. retracting B. reflecting C. refracting D. resisting 12. The properties of light include all of the following EXCEPT ... A. Light can go around a corner B. Light can bend C. Light can be reflected D. Light is a form of energy Label parts of the following: (Illustration 1 - Binoculars Illustration 2 - Refracting telescope) light from distant object real image of

distant object