

Name _____

Date _____ Period _____

Cosmos: Hiding in the Light

1. What was the first camera called? _____
2. Some great authorities of the past thought that we see because rays of light come out of _____.
3. What new additions were added to mathematics from India? _____.
4. What did Ibn Al-Hazn discover about light? _____
5. What is the key to forming any image? _____
6. What is one of Ibn Al'Hazn's guidelines to finding truth? _____
7. What is the basic particle of light? _____
8. What is the control in an experiment? _____
9. What part of the electromagnetic spectrum did Herschel detect? _____
10. What is the distance between adjacent waves called? _____
11. What does the wavelength of light determine? _____
12. Josef Fraunhofer's discoveries led to what new branch of science? _____
13. The blue wavelengths have _____ wavelengths and red has _____ wavelengths.
14. Fraunhofer's discovery revealed that the visible cosmos is all _____.
15. Spectral lines revealed that the universe is _____.

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1. Camera Obscura
2. Our eyes
3. Arabic numerals, zero
4. It travels in straightlines
5. A small aperture
6. Answers vary
7. Photon
8. lacks the factor being tested
9. Infrared
10. Wavelength
11. The color we see
12. Astrophysics
13. high, low
14. Made of the same elements
15. expanding