Chapter 18 Study Guide Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the Electromagnetic Spectrum?

How are the waves on Electromagnetic Spectrum separated?

Light acts as both a wave and a particle

Shadows prove it is a particle and interference proves it is a wave

Be able to tell which wave has a higher frequency or shorter wavelength compared to another wave on the Electromagnetic Spectrum.

Know what Transparent, Translucent, and Opaque is.

Transmit means that the waves can pass through an object.

Know Reflection and Refraction of light.

Be able to explain Polarization of light.

Be able to explain Scattering of light.

Know the colors of visible light (the Rainbow)

What are the primary colors of light and the primary colors of pigments?

What are the secondary colors of light and the secondary colors of pigments?

What are complimentary colors of light and the complementary colors of pigments?

Know what two factors influence the color of an object.

Be able to describe what Convex lenses do to light waves.

Be able to describe what Concave lenses do to light waves.

Which lens would you use to correct nearsightedness?

Which lens would you use to correct farsightedness?

Know the parts of the eye from you r notes.