

TEST REVIEW

Name: _____

1. A _____ is a term used to describe the light given by an object that only gives off emitted light, in other words it doesn't reflect light.
2. What is plotted on a blackbody curve?
3. What can we determine with a blackbody curve?
4. What does the peak wavelength tell us?
5. Very hot objects appear _____ in color.
6. Very cold objects appear _____ in color
7. Different colors of light have different energies which are caused by the _____ within the atom.

8. Different elements produce different _____ that are unique enough to be considered a “fingerprint” of the element.

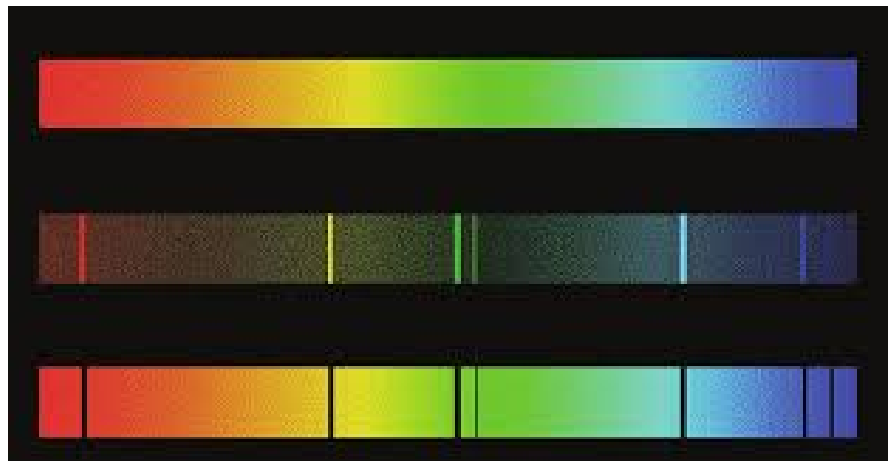
9. The _____ is an instrument used to observe color separation of light. This can be used to examine the properties of continuous and bright-line spectra from various sources of light.

10. Match the name with the image.

ABSORPTION

CONTINUOUS

EMISSION



11. When the bands of color merge smoothly into each other, this is called the _____.

12. Another name for an emissions spectrum is _____.

13. In an _____, lines appear to be missing. Those color lines are actually absorbed, so they appear as dark lines.

14. _____: (plural: spectra) The pattern light produces when passed through a prism or diffraction grating, as seen through a spectrograph

15. _____: A device that allows one to see a spectrum, which usually has a prism or diffraction grating inside

16. _____: When light bends around an obstacle or through a small opening like those in a diffraction grating.

17. _____: Usually a piece of film covered with very thin, parallel grooves

18. _____: Any object that produces light

19. Light can be a particle called _____

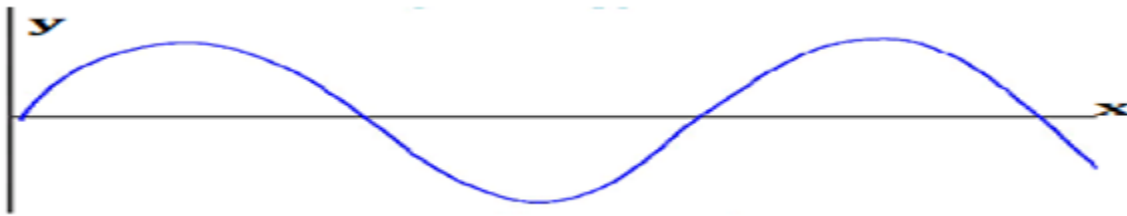
20. Light can be a wave called _____

21. As a wave, light has two parts. What are they?

1)

2)

22. Label the parts of the wave (wavelength, amplitude, crest, trough)



23. Equation for the speed of a wave =

Define frequency =

Define time period =

24. How are each type of spectra formed?

1)

2)

3)

25). What is the doppler effect?

26) How is the doppler effect used to find planets?