WORKSHEET

9TH

PLANCK'S CONSTANT

1.

Identify how early scientists knew something was wrong with the theories about the energy of the electromagnetic spectrum.

- ○ Experimental scientists did not understand the theory.
- ○ Scientists could not generate any experimental results.
- ○ The theoretical and experimental graphs did not match.

2.

Identify the key idea about energy that Max Planck introduced in November 1900.

- ○ All electromagnetic radiation is visible light.
- ○ Light is a form of energy.
- ○ Energy is emitted in discrete units.

3.The approximate value of planck's constant is _____.

6.63×10^{-34} joule-seconds. **5.63×10^{-34} joule**

4.

Planck's constant is a fundamental constant that relates the _____ of light.

- ○ frequency and amplitude
- ○ amplitude and energy
- ○ energy and frequency