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