**Planck’s equation**

**E = hf 1 m = 1 x 109 nm**

**h = 6.63 x 10 -34 J.s 1 kJ = 1000 J**

**c = λf**

**c = 3.0 x 108  m/s**

1. UV has a frequency of 6.8 x 1015 Hz. Find E in J.

2. Violet light has a **λ of 4.1 x 10-12. Find f in Hz**

**3. If λ is 4.06 x 10-11 m, find E.**

**4. What is the frequency of red light with a λ of 500 nm?**

**(Find λ in meters first, then find f)**