Test1 Questions Insolation: After the first 17 slides?

1. What is the amount of solar radiation measure outside of the atmosphere?

Average is 1367 W/m2

1. What is the definition and amount of 1 Sun?

When 1000 W/m2 strikes the earths surface

1. How much power is required to strike a PV panel at 90 degrees to make it produce its rated output?

When 1000 W/m2 strikes it.

1. What type of radiation is sunlight?

Electromagnetic

1. What are the 3 main types of ranges in the sunlight?

Infrared, visual and ultraviolet.

1. Frequencies longer than 700 nanometers are called?

Infrared

1. Frequencies shorter than 300 nanometers are referred to as?

Ultraviolet.

1. What is the frequency range of visual sunlight?

380 – 700 nanometers (+- 200).