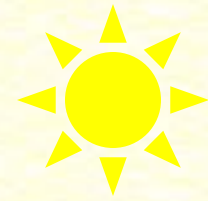
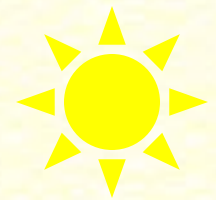


Waves	Spectra	Spectra	Black-Bodies	Visible/ Radio	Hodge Podge
<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>
<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>
<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>
<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>

Transfer of energy
through empty space



The lowest point
on a wavelength is
called the _____.

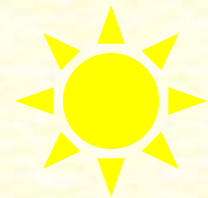


The distance
measured crest to
crest is the _____.

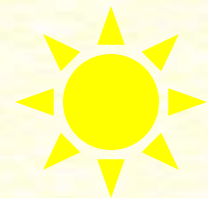


The units for

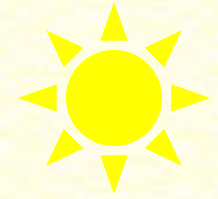
frequency are _____



Maximum departure
from an undisturbed
state



The shortest

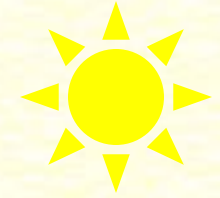


wavelengths on the

Electromagnetic

Spectrum are _____

The longest



wavelengths on the

Electromagnetic

Spectrum are _____

Changing electric fields

create _____ fields

perpendicular to it



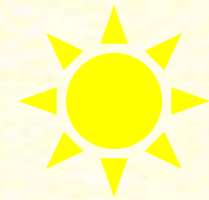
All electromagnetic
waves travel at
this speed.



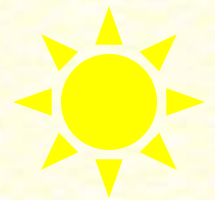


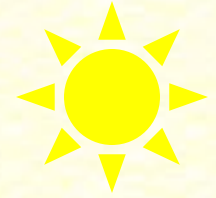
A wavelength with
a length of 500 nm is
equivalent to _____ Å

These waves range
in length from .001
to thousands of
meters.



What 2 wavelengths
in the spectrum are
transparent through
the atmosphere?





What type of
radiation would
give you a sunburn?

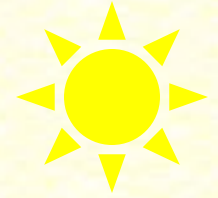
How would you



determine the

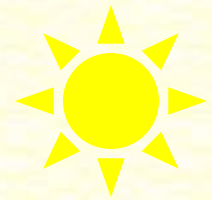
wavelength if you

know the frequency?

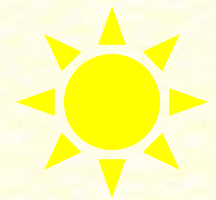


Our eyes are most
sensitive to this
wavelength.

The amount and
strength of radiation
at any given point
in space.



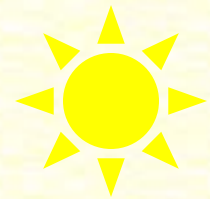
The most important
property in determining
the type of radiation
emitted is _____.



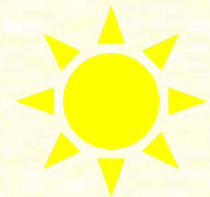
The greater the
molecular movement

the _____ the

temperature.

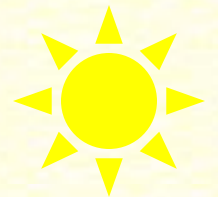


As an object's
temperature increases
the frequency will



_____.

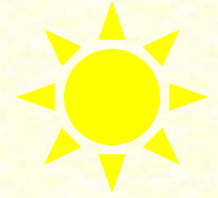
By measuring the
peak wavelength one
can calculate an
object's _____.



This spectrum can
be seen over all
frequencies of
visible light.



Man-made radio



Waves do not overlap

Because they run on

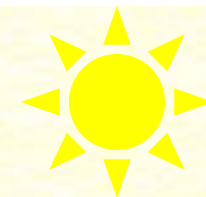
_____ .

AM radio waves

use _____ modulation

to send data.



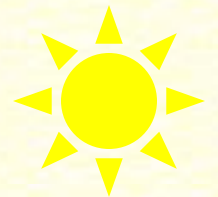


This type of spectrum
is also called bright
line. (associated with
low density hot gases)

Low density gases

_____ certain wavelengths

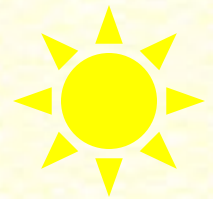
leaving dark lines.



An instrument
used to analyze
visible light.

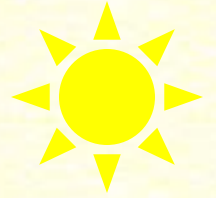


This law states
that peak emission
is a function of
temperature.



Stefan-Boltzmann Law

states that the total



energy radiated is

proportional to _____.

In radio astronomy,
_____ are used as
receivers to capture
radio waves



Radio waves from space

are often called the



21 cm waves. What

Would the frequency be?