Name_____   Class Period_____
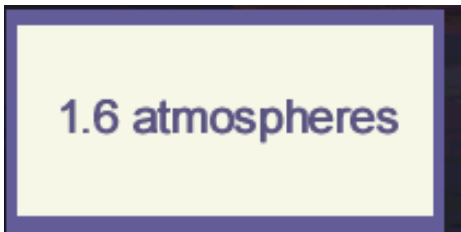
INTERPRETING DATA

Scientific instruments collect *data* but it is up to scientists to interpret that data and turn it into *information* that they can use. Below is some data gathered about worlds in our solar system. Interpret that data and explain how it might be useful in finding new homes for the aliens.

1.6 atmospheres

Barometer reading taken on Titan

Example:

Titan has an atmosphere that is denser than Earth's. This means that it might be a good home for a species that needs a dense atmosphere.

0.01 atmospheres

Barometer reading taken on Callisto

Callisto has a very thin atmosphere (1/100 of Earth's atmosphere). This would make it a poor choice for a species like the Wroft who need a thick atmosphere, but it might be alright for other species who need less of an

atmosphere, like the Akona and the Sylcari.
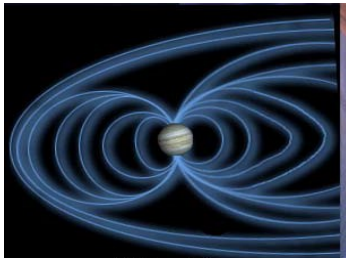
Magnetometer reading for Jupiter

Jupiter has a very strong magnetic field. This would

make it a poor choice for the Wroft because magnetic fields are dangerous for them.
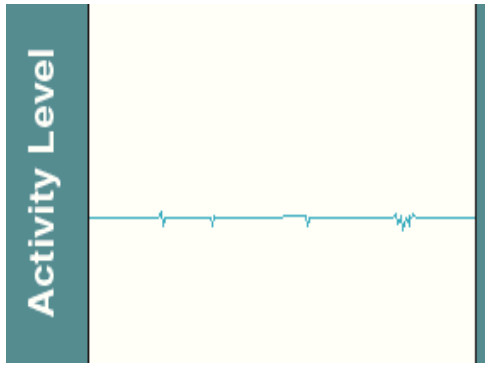
Magnetometer reading for Mars
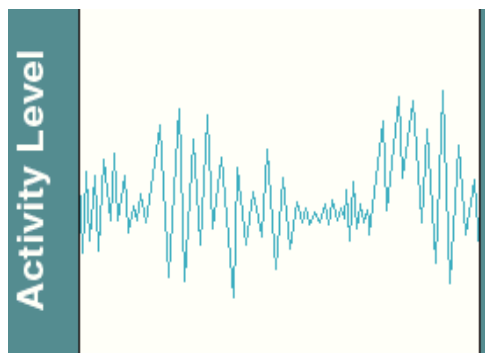
Mars has a weak magnetic field, but it would be

enough to protect the surface from the solar wind.

This means the Eolani could live there.

Seismograph reading from Deimos

Deimos has very little seismic activity. The Eolani, Kaylid, and Akona all need to find worlds with low seismic activity, so this might be a good home for them.

Seismograph reading from Io

Io has strong earthquakes. Only a species who can survive earthquakes, like the Wroft, Jakala-Tay, or Sylcari, could live there.
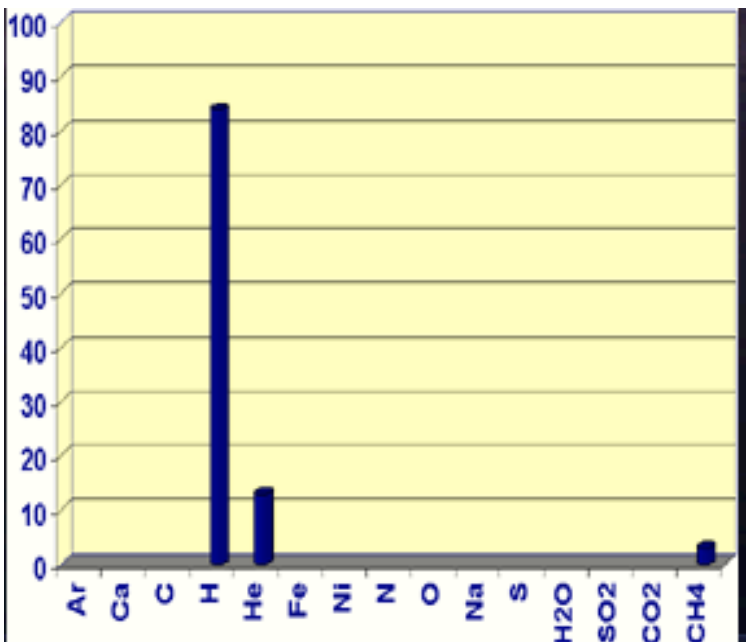
Spectrograph Reading on Neptune

Neptune has hydrogen, helium, and methane. Since methane has carbon in it, this might be a good home for the Wroft.