

# Earth Science 11

## Unit 1 – Earth and its Solar System

### Day 3 – Our Sun

Name: Schaub

Date: \_\_\_\_\_

Block: \_\_\_\_\_

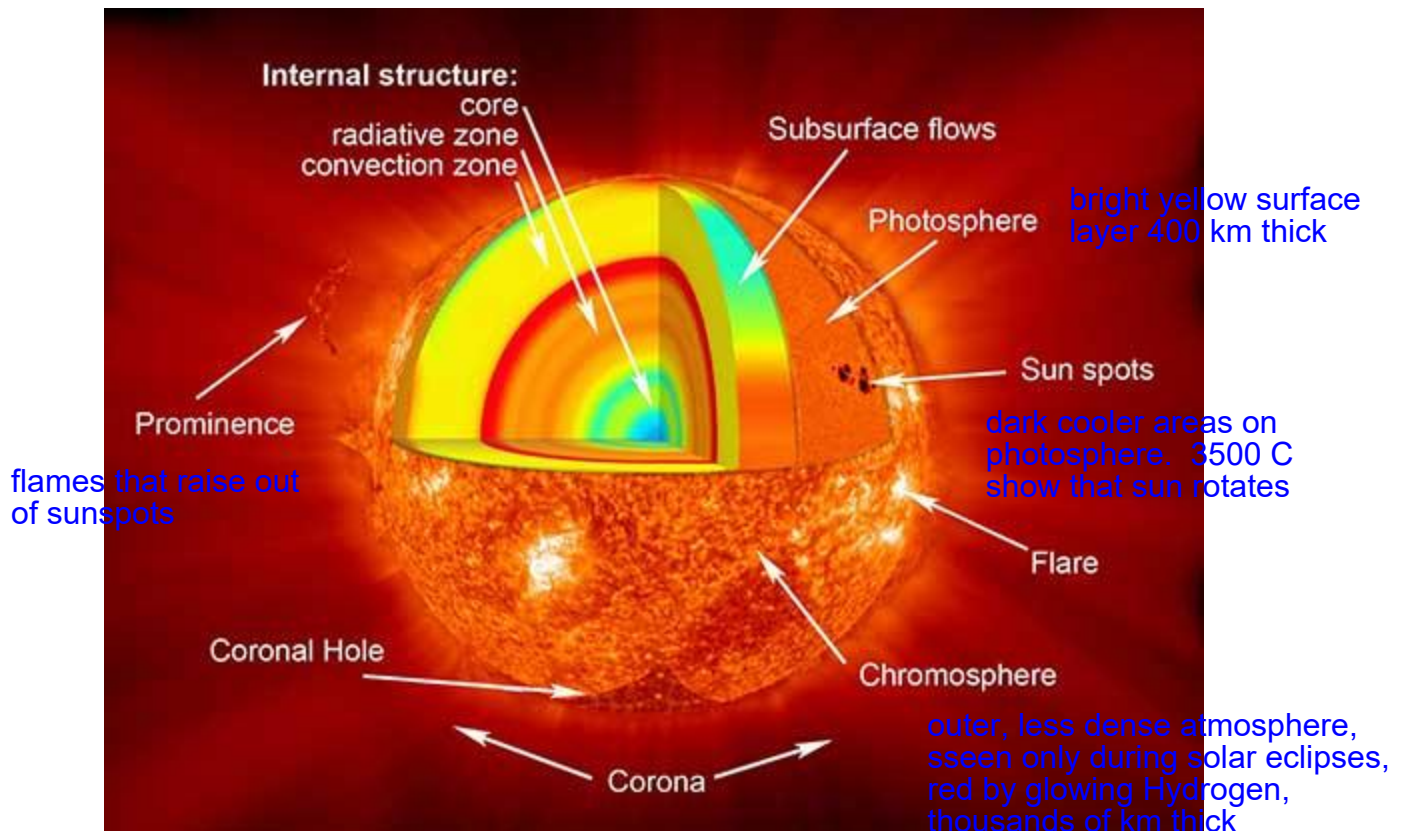
The Sun would be the dot on this "i" if the galaxy were the size of Canada.

Our Sun is very average:

- average sized
- 1 380 000 km in diameter ..... about 110 times the diameter of Earth
- you could put more than 1 million Earths inside of the sun volume wise
- Sun is heavier than 700X the combined mass of all the planets in our solar system
- surface its 5500 C
- interior 15 000 000 C due to gravity and fusion reactions

Energy comes from fusion  $4\text{H} \rightarrow 1\text{He}$ ... slight loss of mass turns into energy .....  $E = mc^2$

Solar wind: stream of protons from corona more than 1 million km/h



Solar flares: big prominences.... send particle into space... interact with Earth's magnetic field to create Northern lights