Historical Ecology Warm-up - 11/2/09

Answer the following question on one HALF-SHEET of paper: (5 points)

Describe 3 reasons why Native Americans burned the Willamette Valley prairies annually. increases sail nothients increases hunting apportmities increases quality of useful plants

· Test over Willamette Valley Historical Ecology: MON. 11/9/09 (open note)

· Wed 11/4 -> NOYES PROPERTY

· Dress appropriately

Permission slips

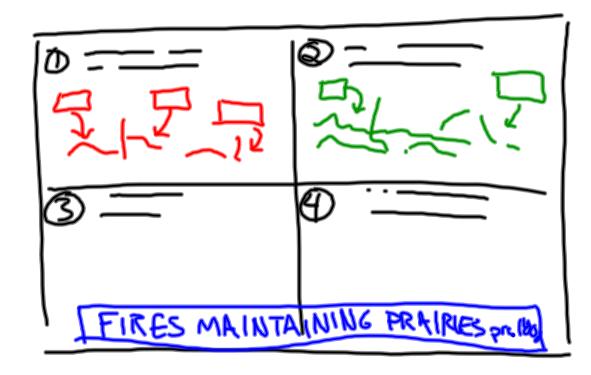
How fire maintained oak savannah/prairie land scapes prior to 1800:

- 1. Grasses & Flowers die back @ end of summer/start of All
- 2. Native Americans lit fires which burned the dead plant material
- 3. Fires were hot enough to burn dead plant material, newly sprouted trees is shrubs BUT not old, established trees or plant seeds
  - 4. In spring, new plants would sprout and the process would repeat

How Douglas Fir forests took over the Willamettz Valley after fires were stopped (1850)

- 1. For a few years, the oak savannah and prairies stayed mostly the same
- 2. Tree & shrub seedlings were no longer burned away so they became established
- 3. Douglas Fir trees grow taller more quickly than other trees (20-50 years)
- 4. Deprived of sunlight, the oak trees died track (50+ years)

Create a series of illustrations for each stage of each process:



5 min/ illustration (stage)