Keading a Scientific Paper: > Expect not to understand everything & > XIF you can't figure it out, ignore it... · You we reading & documenting for you · Read visualize) à describe in writing · Visuuss/ask questions (each other me) · Approach the paper in terms of menningful research asif you) answer specific are looking at grestons Were looking at samething important to you · Skim the paper in search of relevant information

1. According to the evidence in this paper, how did Native Americans "manage" the Willamette Valley?

Set prairie fires annually.

Created a prairie open - woodlands

complex 2 What is a prairie

What does

this accomplish?

Ecology: The study of interactions between brganisms and their environment. WITRB questions are the first Step to seeing if there might be an interaction. Main questions:

[1. Why are againsms Good in certain locations? (2. Why we organisms found in certain abundance? Why do we see the plants we see in the abundance that we see in the Willamette Valley? Largely determined by <u>Nishorical</u>

2. How have European settlers and their descendents "managed" the Willamette Valley since the mid 1800's?

Reduced burning (contined burning to certain weas)

3. *In your own words* explain why firs now dominate many former prairies in the Willamette Valley.

Firs continue vertical growth (grow talker than other plants), "broadleaf trees"

Lack of burning (succession

doesn't "reset") — fire killed all

plants—including baby firs!

In the absence of burning, 3) Firs will eventually steal sunlight from other trees.

4. Why did prairie fires burn the grasses but not the oak trees?

Dak trees are "fire tolerant" they can Relatively (od, fast-burning withstand gives fires - little large fuel (not many sticks, branches, logs) Thick back (it burns, but tree doesn't)
Fires weren't all-inclusive - so oaks May have had a chance to grow. Some oaks were in the valley prior to large-scale burning. Other trees, like firs, weren't present when burning began.

5. Shantz and Zon characterized the native vegetation of the Willamette Valley as Douglas fir forest. However, it is clear that the dominant vegetation of the valley throughout recorded history has been prairies and grasslands. What did they mean by their characterization?

> HYPOTHETICAL It didn't exist then ... but they predicted that over time (in the obsence of fire) it would eventually appear.