

Bozeman Science: **Ecosystems** Guided Viewing

Name: _____

1: What is **primary productivity**? What do we measure it in? (**units**)

2: What are **producers**? Who are the *main producers* in the ocean? *How is this measured in an aquatic environment?*

3: What is a **trophic level**? List and define the trophic levels. (**Give examples**)
In which direction does the arrow go in a food web? Explain.

4: What is a **food web**? *How is it different than food chains?*

5: Explain the *limiting factors* for growth in ecosystems. Explain **logistic growth**.

6: What is the **carrying capacity (K)** of an ecosystem?

7: **What factors** affect the carrying capacity of a population? *Explain how wolves and elk populations are linked and how they will reach **equilibrium**.*

8: Summarize the story of the **Whitebark Pine** and how humans can impact an entire ecosystem by choices we make (directly or indirectly).