

Food Chain, Food Webs, Food Pyramids

A comprehensive look at organizing ecological relationships

Ecology Definitions

- * **Food Chain:** An interaction that connects organisms based on the order in which they feed on one another.
- * **Energy is continuously lost from all levels of the food chain.**

Ecology Definitions

- * **Food Web:** A group of food chains from one community or ecosystem that are connected together
- * Highly complex, consumer feed on many species
- * Useful tool to figure out what may happen when species are removed from or added to an ecosystem.

Ecology Definitions

- * **Trophic Level:** Feeding level of one or more organisms in a food web/chain

Food Web Vs. Food Chain

* Food Chain:



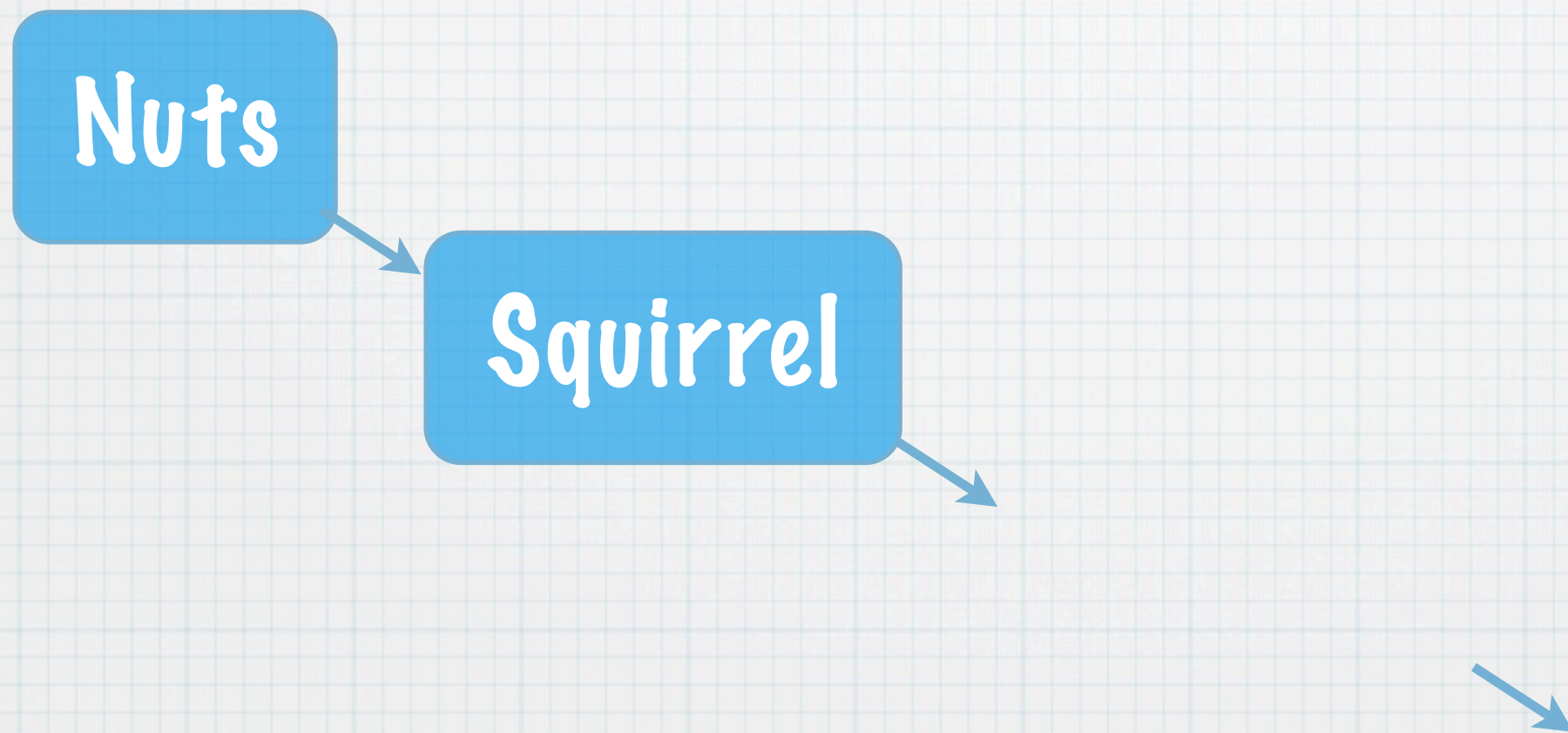
Food Web Vs. Food Chain

* Food Chain:



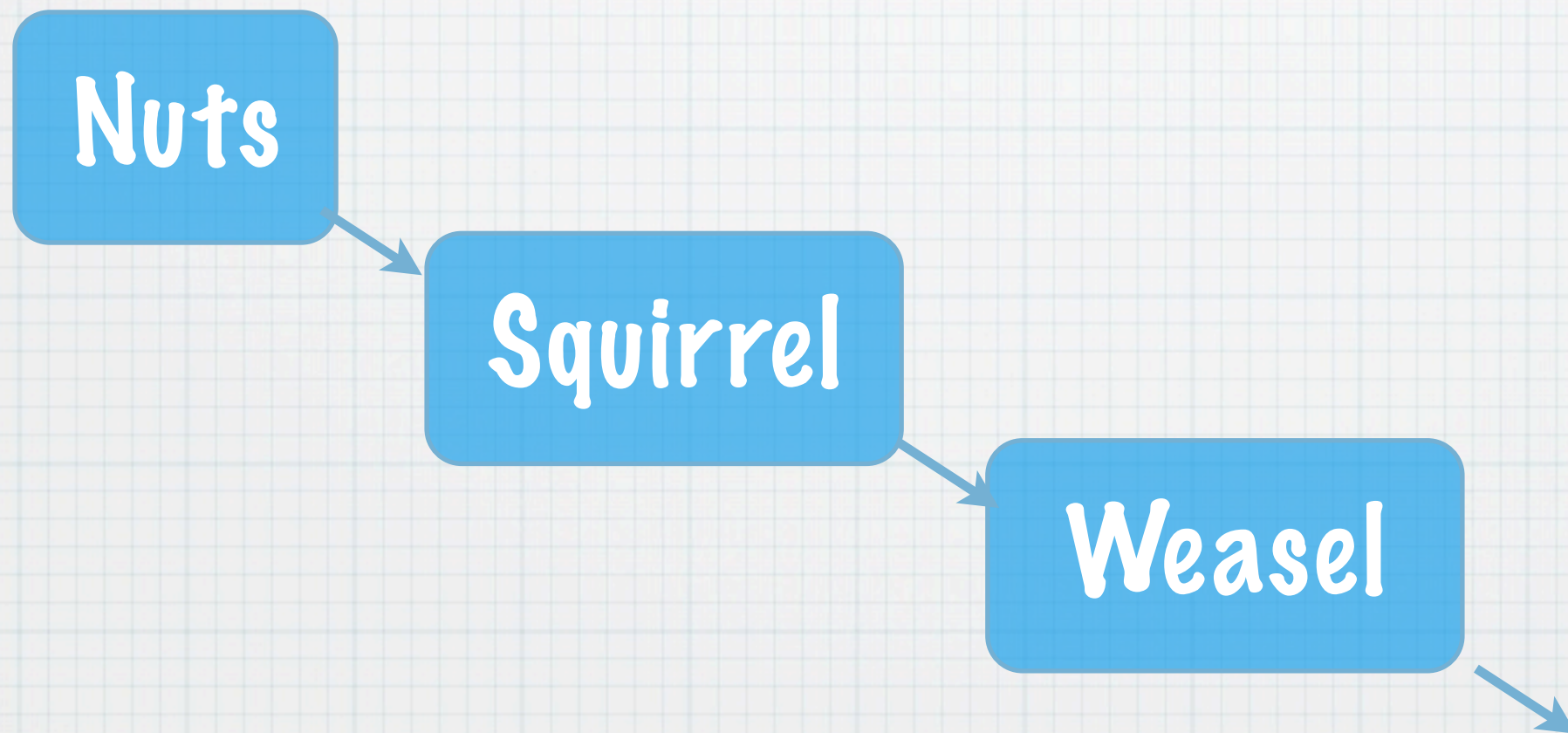
Food Web Vs. Food Chain

* Food Chain:



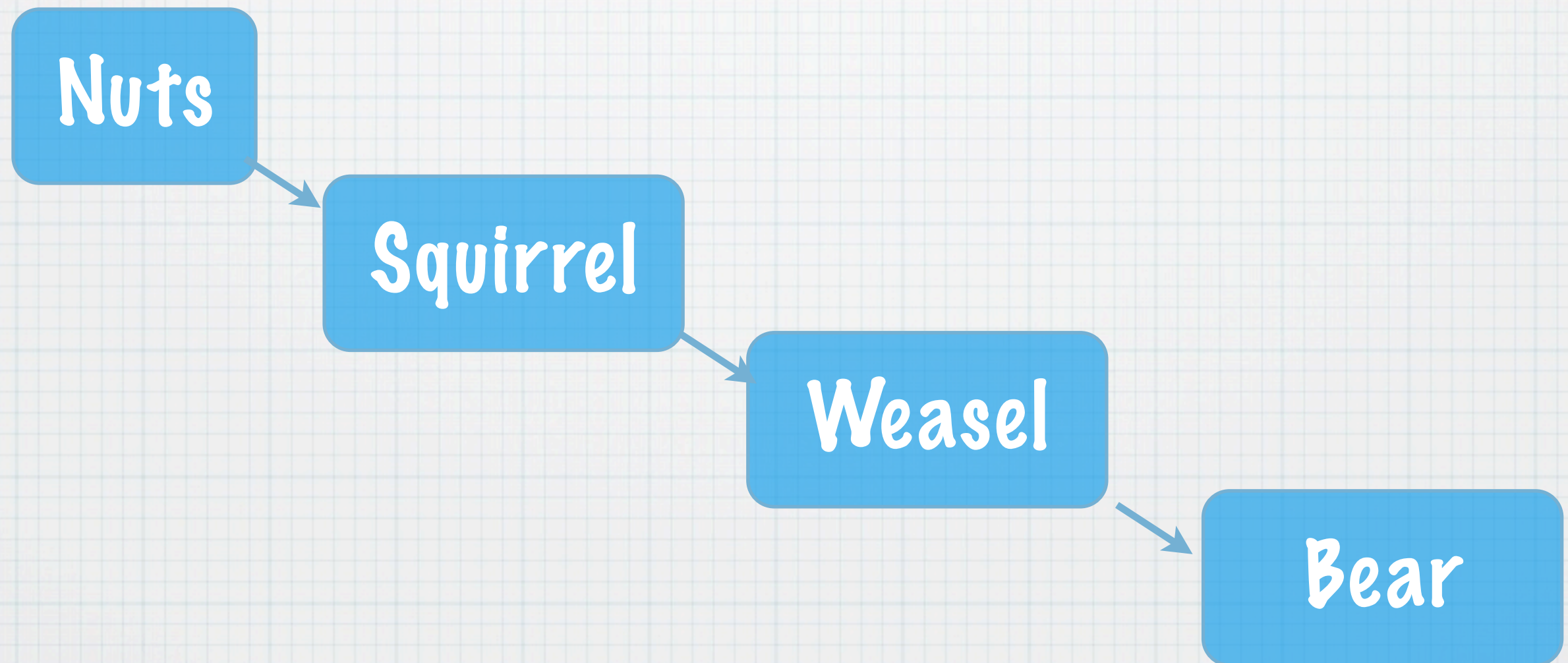
Food Web Vs. Food Chain

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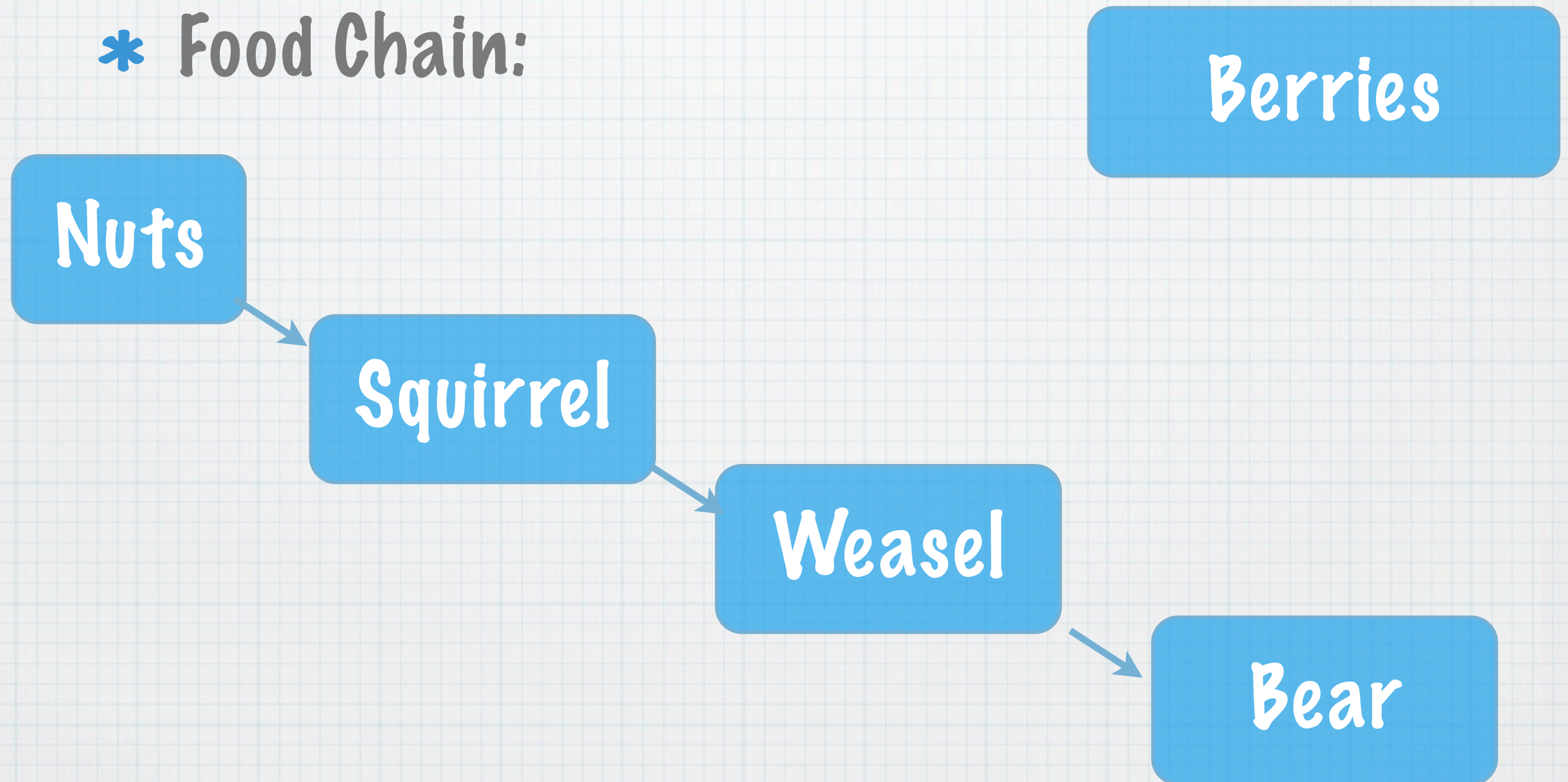
Food Web Vs. Food Chain

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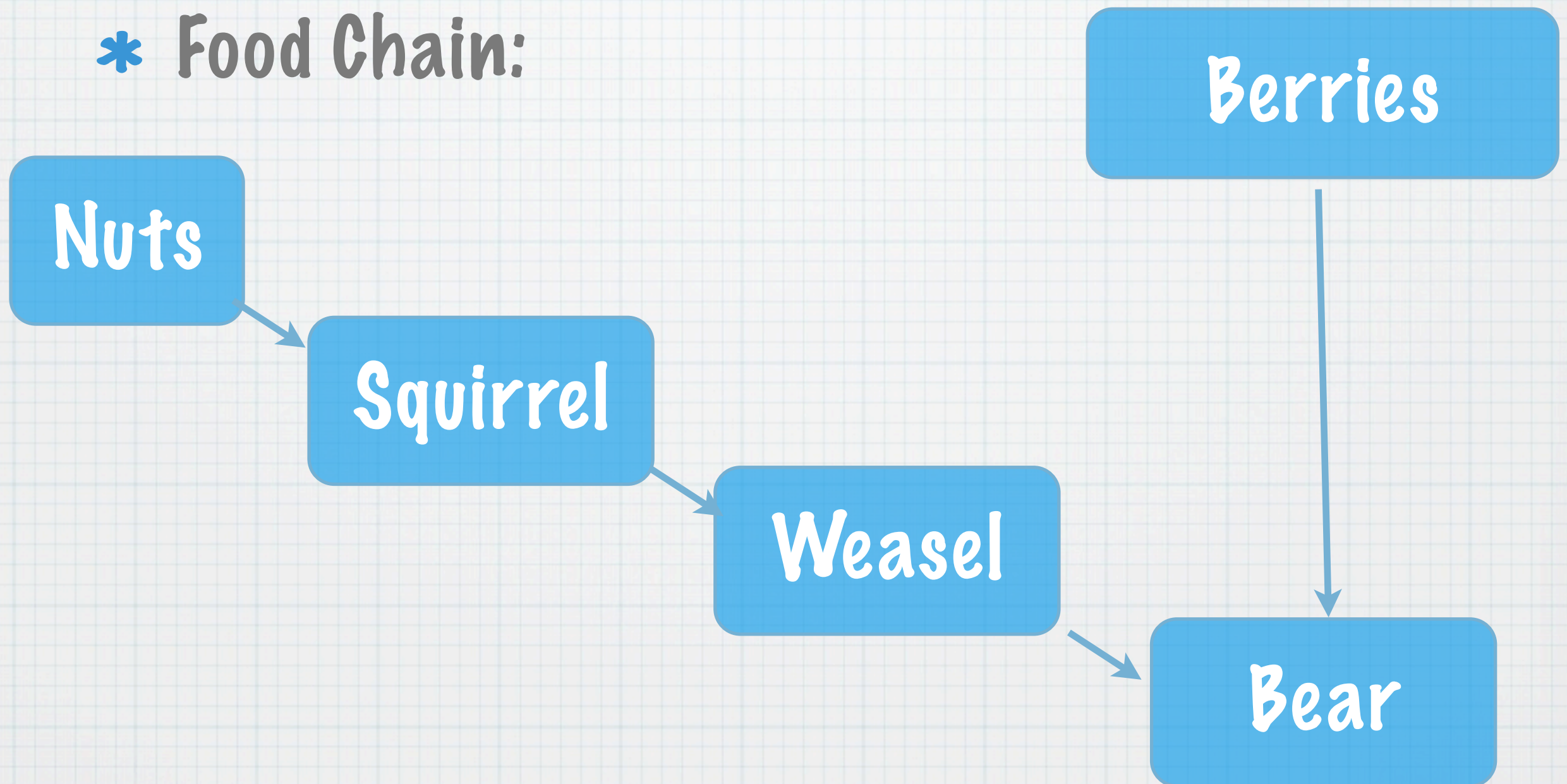
Food Web Vs. Food Chain

* Food Chain:



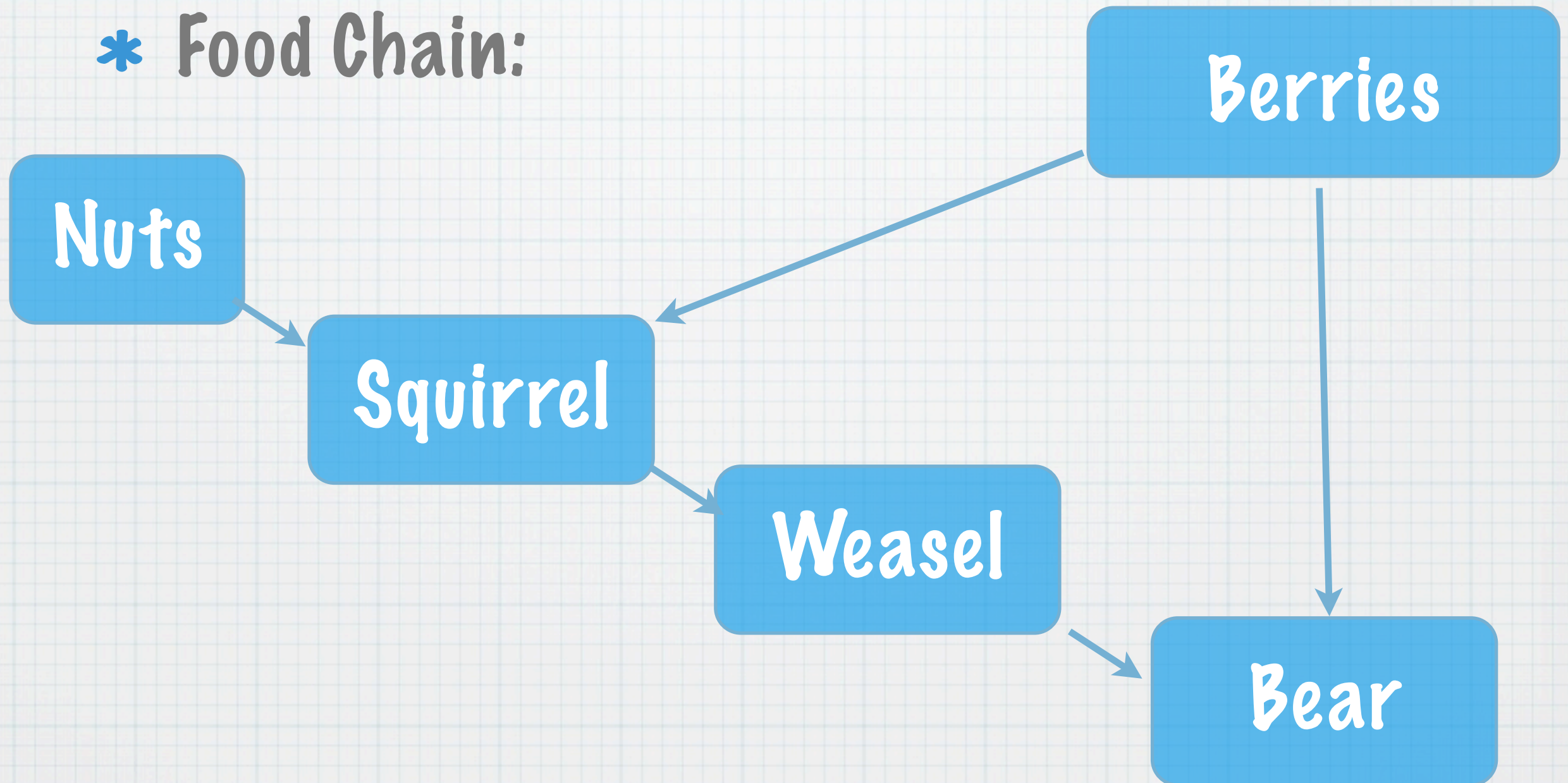
Food Web Vs. Food Chain

* Food Chain:

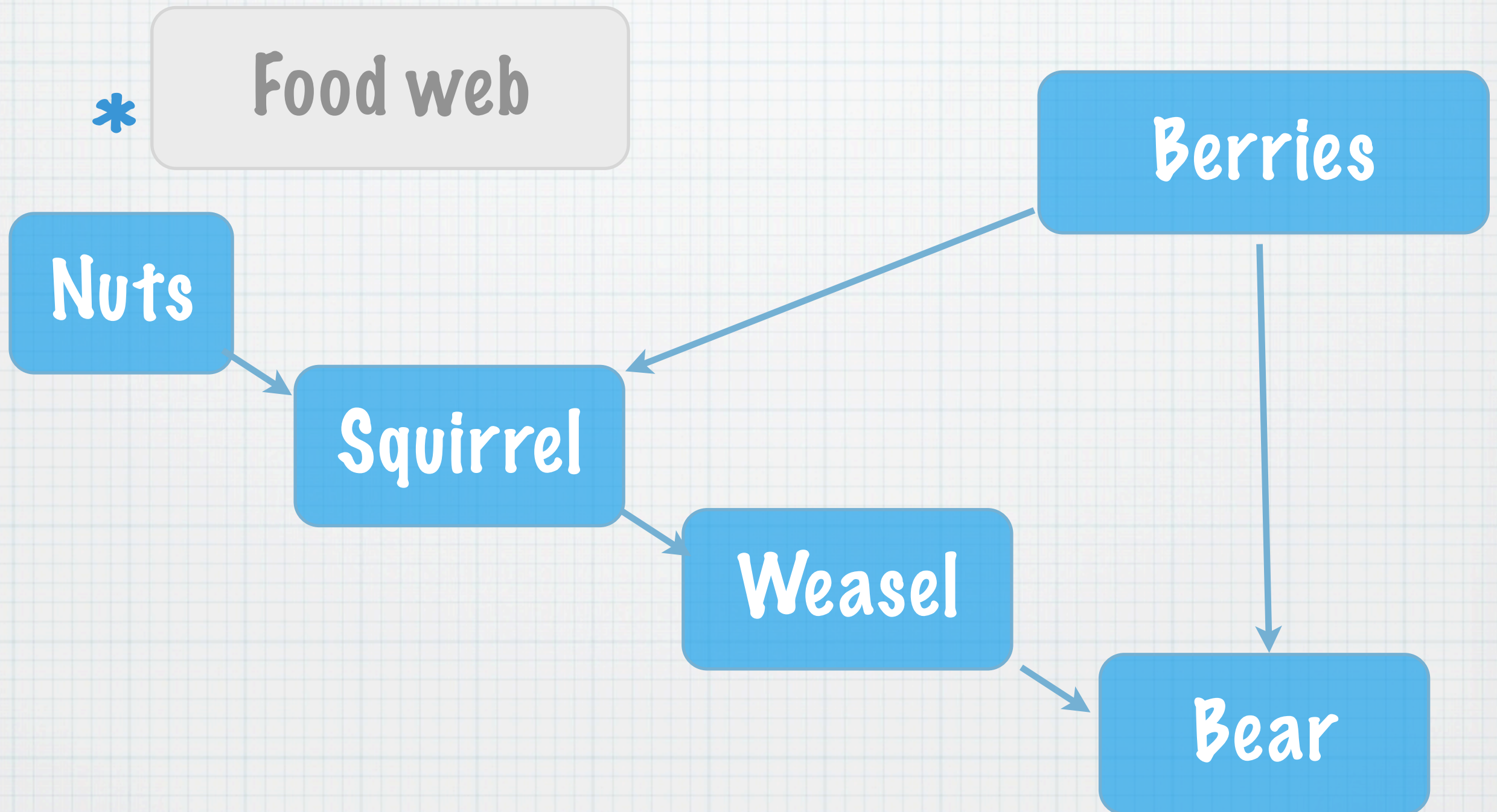


Food Web Vs. Food Chain

* Food Chain:



Food Web Vs. Food Chain



Food Web Definitions

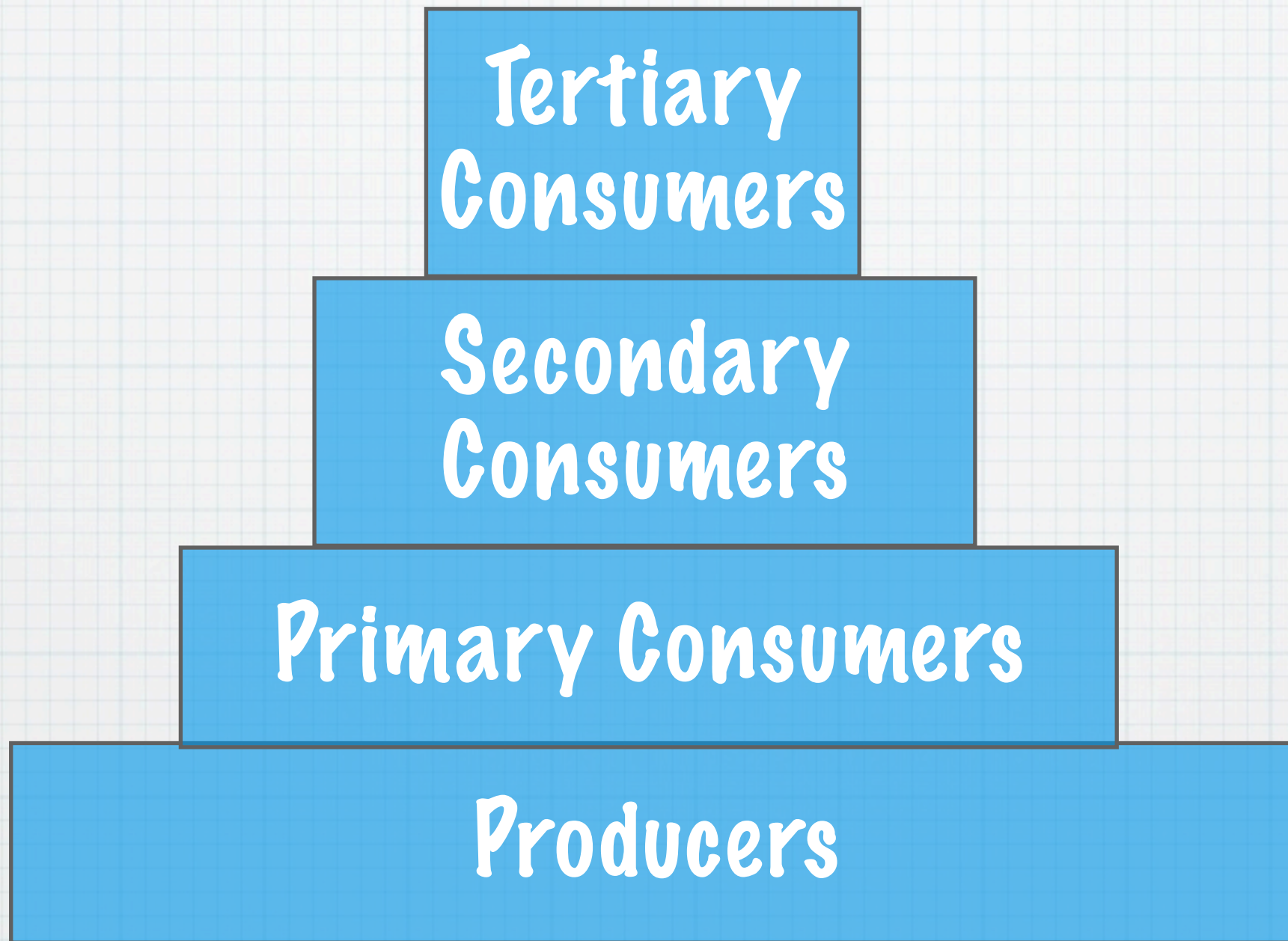
- * **Producers:** Plants that carry out photosynthesis.
- * **Herbivore:** An organism that consumes only plant material.
- * **Carnivore:** An organism that eats other species of animals.
- * **Omnivore:** An animal that consumes other species of animals and plant materials.

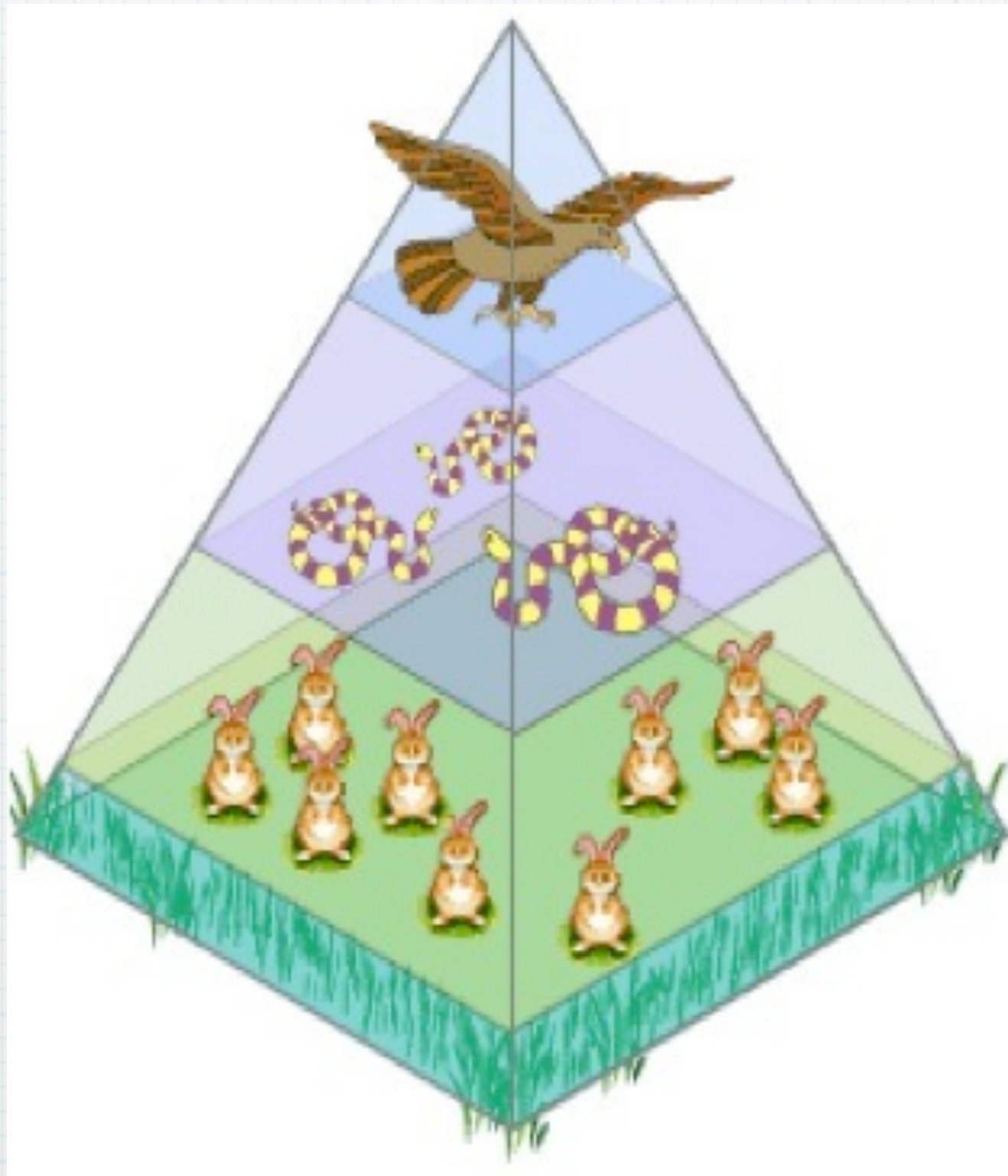
Food Web Definitions

- * **Decomposers:** Various bacteria and fungi that break down dead materials and animal wastes and extract remaining nutrients.
- * **Scavenger:** Consumer that feeds on the body of large dead animals.
- * **Parasite:** An animal or plant that lives in or on another from which it obtains nourishment.

Ecological Pyramids

- * Ecological pyramids display relationships between the trophic levels in an ecosystems





Homework

- * Complete 'Try This' on pg 45
- * Answer Questions 1,2,3,5,7,8 on page 47



Food to Mouth Lab

Energy Efficiency

* Pounds of potatoes
that can be grown
on an acre:

* 40,000
lbs

* Pounds of beef
produced on an acre:

* 250 lbs