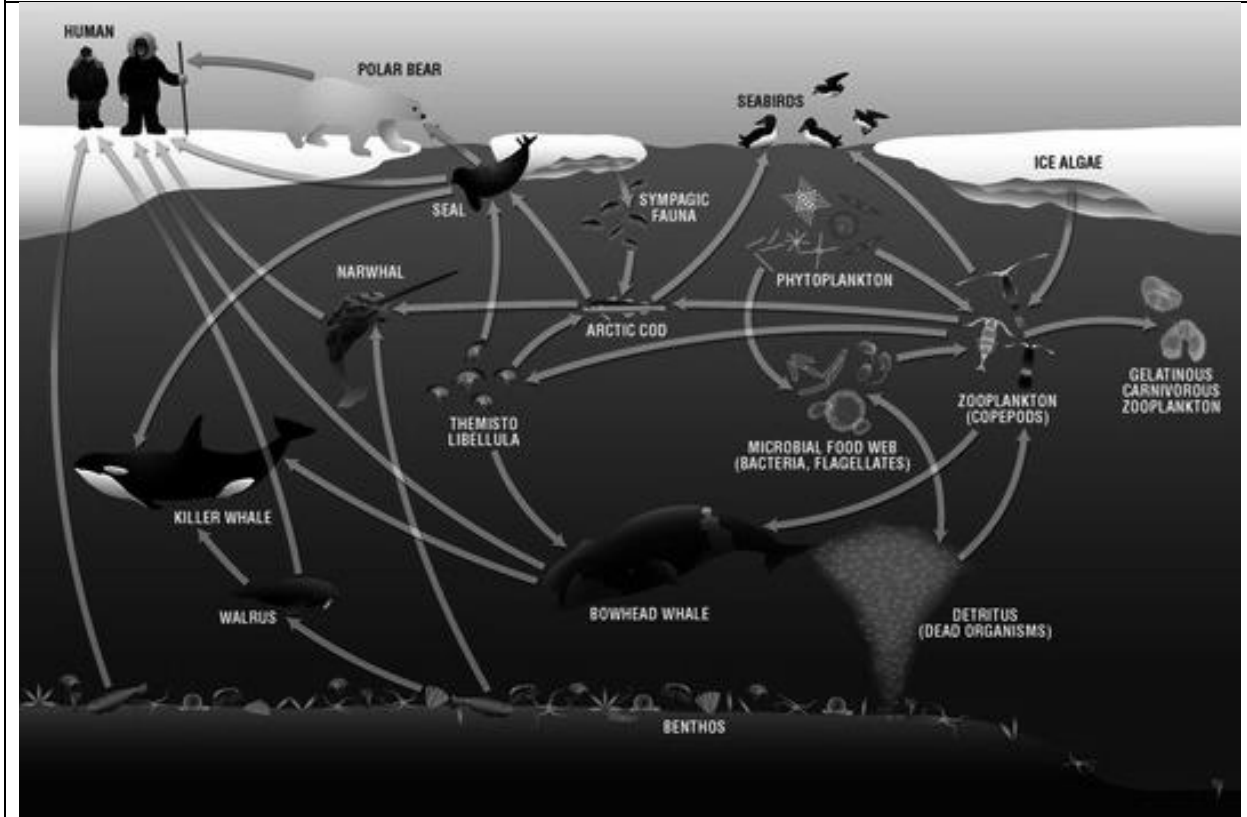


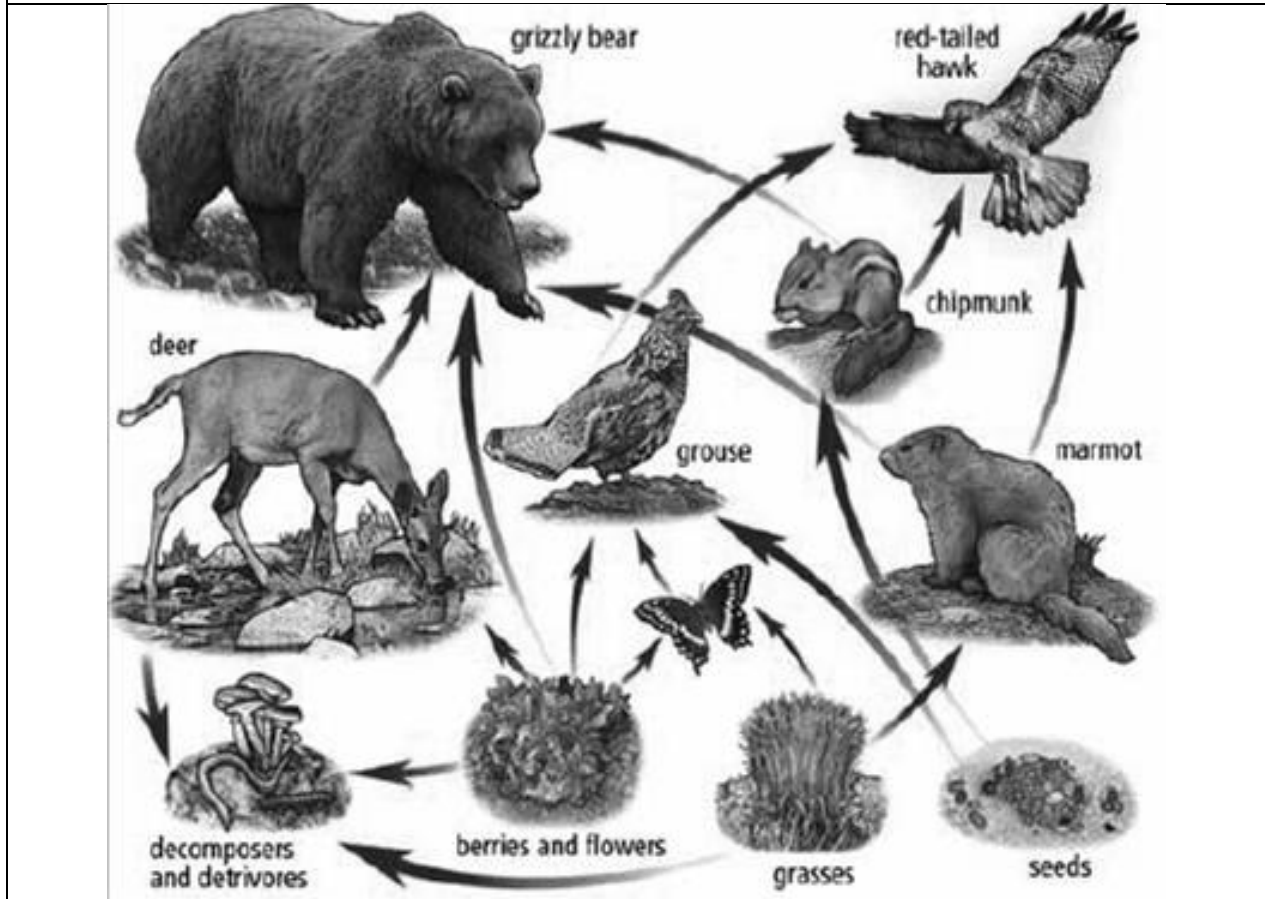
## Arctic Ecosystem Food Web



Producer	1 <sup>st</sup> Level Consumer	Higher Level Consumer	Herbivore	Omnivore	Carnivore

- Complete the table above for the Arctic Ecosystem Food Web identifying the Producers, 1<sup>st</sup> Level Consumers, Higher level Consumers, Herbivores, Omnivores, and Carnivores.
- Construct two different food chains from the food web shown above.
- What is the apex predator of the Arctic Ecosystem Food Web?
- What do you propose would happen if polar bears were killed off by human hunters?
- If humans were allowed to overfish Atlantic Cod, what do you propose would happen to the food web?
- If 1000 J of energy was available to ice algae from the sun, considering the shortest route of consumption, how much energy would make it to the polar bears? Show your work.

## Terrestrial Ecosystem Food Web



Producer	1 <sup>st</sup> Level Consumer	Higher Level Consumer	Herbivore	Carnivore	Omnivore

7. Complete the table above for the Terrestrial Ecosystem Food Web identifying the Producers, 1<sup>st</sup> Level Consumers, Higher level Consumers, Herbivores, Omnivores, and Carnivores.
8. Construct two different food chains from the food web shown above.
9. What is the apex predator of the Terrestrial Ecosystem Food Web?
10. What do you propose would happen if grizzly bears were killed off by human hunters?
11. If humans were allowed to over hunt deer, what do you propose would happen to the food web?
12. If 1000 J of energy was available to the grasses from the sun, considering the shortest route of consumption, how much energy would make it to the grizzly bears? Show your work.