Energy & matter through ecosystems - worksheet answers

Glossary:

Biomagnification: When concentration of a toxic substance accumulates in the tissue of

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Consumer: organisms who consume their food ready made eg herbivores, carnivores parasites scavengers, detritivores, and decomposers

Decomposer: bacteria and fungi that break down the dead organism, with heat loss.

Detritivore: feed on the remains of dead animals and plants. They play an important role in the cycling of matter. Eg earthworms, snails, insect larvae.

Ecosystem: the system formed by organisms interacting with one another and their environment.

Food chain: organisms are linked together by what they eat eg kookaburra feeds on the skink that feeds on insects that feeds on the eucalypt leaves.

Food web: within one ecosystem, there may be more than on hundred food chains, linked

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Photosynthesis: Most autotrophs, including plants and algae get energy from sunlight and carbon dioxide and water. Photosynthesis can be summarised in the following formula equation

Respiration: is carried out by all plants and animals at all times to provide energy for cellular functions. It can take different forms, some require oxygen and some without. **Trophic level:** different feeding levels in a food chain

Questions:

1.



- 2. starfish
- з. octopus, seagull
- small fish, periwinkles
- 5. worms, shrimp, periwinkles, starfish
- 6. Bacteria, fungi
- 7. native grass, eucalypt trees
- 8. producers (autotrophs) convert carbon dioxide and water into energy that is used by other consumers. Convert inorganic substances to organic.