Mutualistic Relationships

In this type of relationship both species benefit. Examples to consider:

1. Oxpeckers

These are birds that live on the backs of **buffalo**, eating **pests** like ticks, fleas and maggots, so providing the birds with a **food source**.

In return the birds alert the buffalo to predators that are near, by hissing.

Oxpeckers are an example of cleaner species.

2. Cleaner Fish

Cleaner fish are another example of cleaner species that eat dead skin and parasites off larger fish, so providing them with food. In return the big fish don't eat the cleaner fish.

3. Nitrogen Fixing Bacteria in Legumes



These bacteria change nitrogen into nitrates that plants need. Leguminous plants, like beans, peas and clover, carry these bacteria in special nodules in their roots.

The plants get essential nitrates from the bacteria and in return the bacteria get a constant supply of sugar from the plants.

4. Chemosynthetic Bacteria in Deep Sea Vents.

These bacteria live inside giant tube worms or inside the gills of molluscs in deep-sea vents.

The tube worms provide the bacteria with chemicals from the sea water which the bacteria change into food for themselves and the host worm.

Q1.	Describe the difference	between	a	ras	itic r	elation	hip	and	l mutaualistic i	relationship
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- Raw materials, including non-renewable energy resources, are rapidly ooms
- More and more waste and rubbish are being produced,
- More pollutants are being produced like phosphates from detergents, nitrates from fertilisers and sulphur dioxide from coal burning power stations.

Use of Fertilisers.

entaining nitrates and phosphates, which are necessary for modern farming.