

Solutions

Each answer shows the steps, then the **result**.

2.1

- They absorb most of the extra heat from the enhanced greenhouse effect

2.2

- They bleach (expel their symbiotic algae) and can die

2.3

- Warm water expands (thermal expansion)

3.1 A

- symbiotic algae due to heat stress

3.2

(a)

- Heat stress makes corals expel their symbiotic algae, so they lose their food source and color (bleach); if the heat persists they starve and die

(b)

- Loss of habitat/biodiversity (or fisheries, coastal protection)

3.3

- As seawater warms it expands and takes up more volume, so the same amount of water rises higher, adding to sea-level rise