

Indicator species and decomposition

Triple only

Higher tier

Which indicator species show polluted water?

Indicator species and decomposition

Triple only

Higher tier

Which indicator species show clean water?

Indicator species and decomposition

Triple only

Higher tier

How do lichens and blackspot fungus on roses indicate air quality?

Indicator species and decomposition

Triple only

Higher tier

Give a limitation of using indicator species.

Indicator species and decomposition

Triple only

Which factors affect the rate of decomposition?

Indicator species and decomposition

Triple only

How do freezing, drying and vacuum packing preserve food?

Indicator species and decomposition

Triple only

What conditions give fast decomposition in composting?

Indicator species and decomposition

Triple only

How do you calculate the rate of decay?

Freshwater shrimps and stonefly nymphs.

Bloodworms and sludgeworms.

Only a rough guide: other factors may affect the species, and it does not give an accurate measurement of the pollutant.

They are sensitive to sulfur dioxide. Different lichen species tolerate different levels; blackspot is more common in cleaner air.

They slow decomposition by microorganisms: low temperature slows their enzymes, and they have less water and less oxygen.

Temperature, water content and oxygen availability.

Change in mass $\div$ time.

Warm, moist and plenty of oxygen.

Indicator species and decomposition **Triple only**

How do you calculate percentage loss in mass?

Change in mass $\div$ original mass $\times$ 100.