

C6.1.6 (Combined Science)

C6.1.16 (Triple Chemistry)

Recycling Materials

Recap of previous knowledge – answer the quiz questions

# Learning Objectives

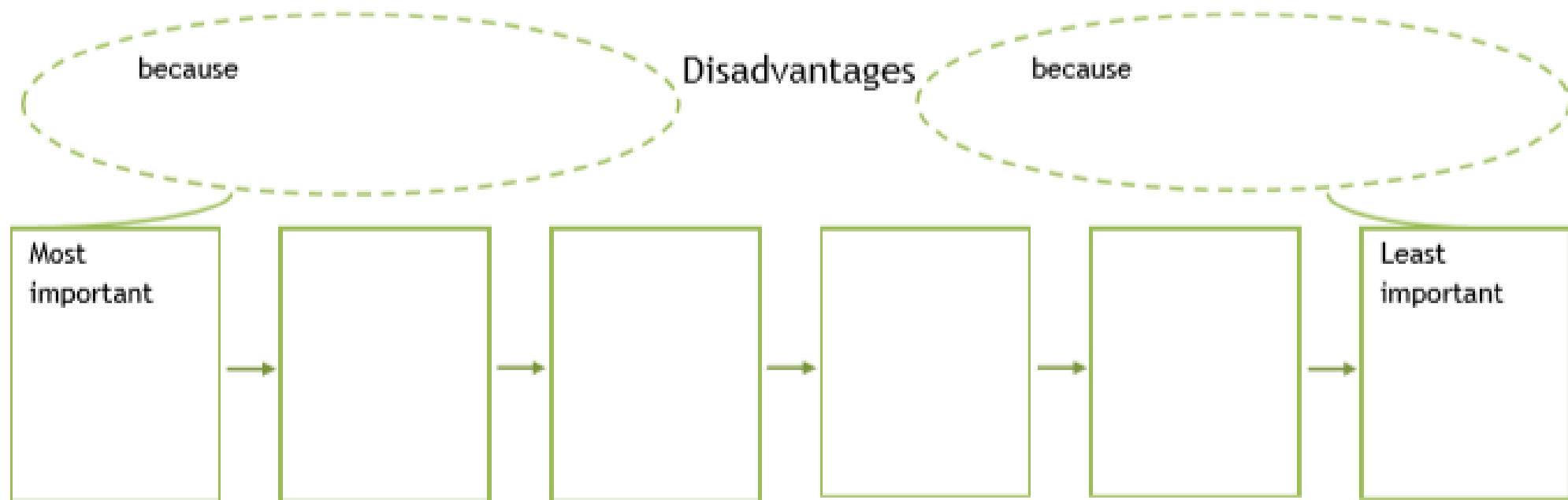
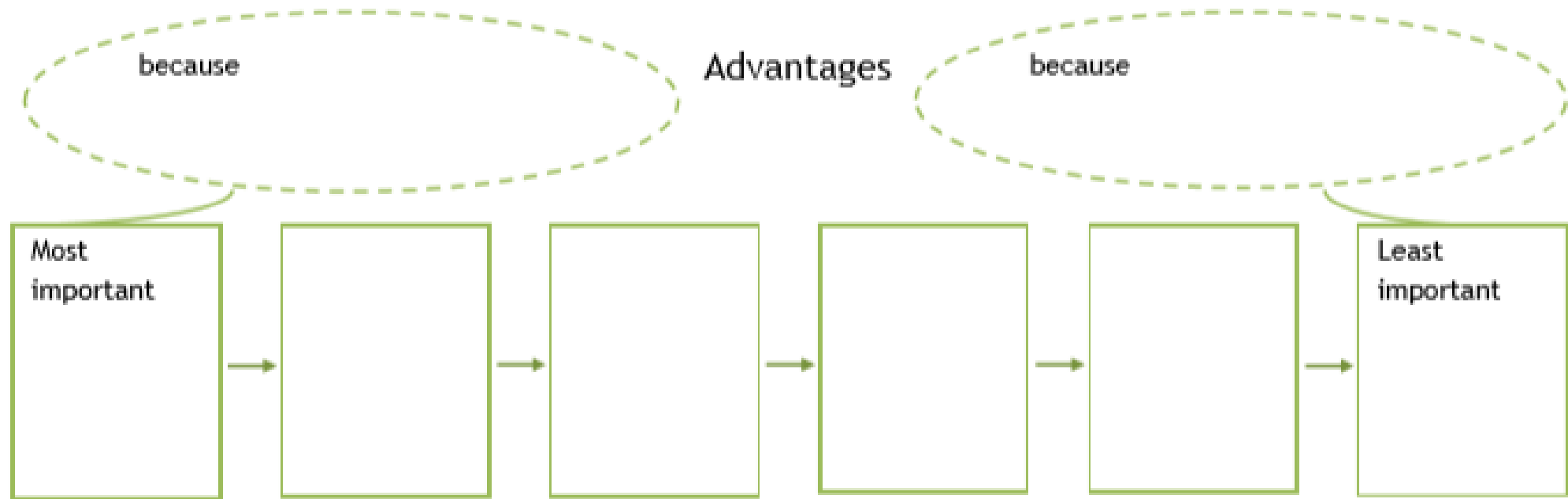
- Describe how different materials are recycled
- Explain the advantages and disadvantages of recycling

# Task 1: Advantages and disadvantages of recycling

Recycling reduces pollution.	Recycling produces less greenhouse gas than making goods from scratch.	Recycling means less waste goes to landfill sites.	During the recycling process greenhouse gases are produced.
Recycling sites are not pleasant to look at.	Recycled products can be of poor quality.	Recycling plants create jobs.	Dangerous chemicals are used in the recycling process.
Recycling paper saves trees.	Recycling sites can be unsafe, e.g. paper recycling plants can easily set on fire.	Recycling uses less energy compared to making goods from scratch.	Building recycling plants is expensive and takes a long time.

1. Sort into advantages and disadvantages

2. Copy into the organiser on the next slide



# How are materials recycled?

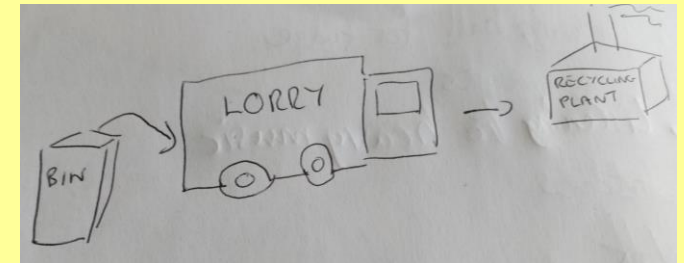
## Collecting / transporting/sorting

- Waste is collected and transported to a recycling plant
- Materials are sorted
- Materials are shredded or crushed into smaller pieces

## Processing

- Metals – melted and poured into moulds to create new blocks of metal called ingots
- Paper – mixed with water, cleaned, rolled and heated to create new sheets of paper
- Glass – melted and moulded into new glass objects
- Polymers – some types are melted and formed into new objects

**Task 2:** Turn this text into a page of diagrams  
e.g. waste is collected and transported to a recycling plant becomes



Recap of lesson – answer the quiz questions