

1. Discuss the questions.

- How often do you replace your mobile phone? What is the most common reason for replacing it?
- What do you usually do with the electronics you don't need anymore?
- What do you know about e-waste recycling?

2. Complete the sets of sentences with the words provided. One sentence in each set can take both words.**a) component / element**

- 1) This is the key of a successful recycling process.
- 2) The primary in this compound is carbon.
- 3) The company manufactures electrical for cars, like batteries and alternators.

b) a magnet / adhesive

- 1) You can collect waste iron using
- 2) The components are fixed in position by
- 3) Apply immediately to both surfaces and press together.

c) precious / raw

- 1) materials like clay or gravel are used in construction.
- 2) metals should be recovered from e-waste.
- 3) metals require extensive mining.

3. Read the sentences and replace the words and phrases in bold with the words in the box.

degraded depleted discarded disassembled shredded sifted

- a) The furniture didn't fit so it was **taken apart** and transported back to the store.
- b) The quality of these raw materials is **reduced** over time.
- c) Leaves are **cut into small pieces** to decompose faster.
- d) Stones were **examined and sorted** in order to separate the bigger pieces which would be used to make arrowheads.

E-waste recycling

- e) Some toys were **removed** from the inventory as they contained toxic adhesive.
- f) We won't be able to manufacture some items because certain elements are being **used up**, e.g. matches can't be produced without phosphorus.

4. Discuss what steps each of the processes might involve. Use the words in the box.

adhesive	degrade	deplete	discard	disassemble
element	magnet	precious	shred	sift

- recycling old cars
- disposal of documents
- recycling furniture
- any other recycling or disposal process you're familiar with

5. You are going to watch a video about mobile phone recycling. What do you think the process might look like?

6. Watch the [video](https://youtu.be/mFc80PhnU7w) [https://youtu.be/mFc80PhnU7w] and take some notes on the following.

- a) traditional methods of recycling phones

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- b) how Apple's robot Daisy recycles phones

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- c) why it is important to recycle phones

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7. Discuss the questions.

- Did anything in the video surprise you?
- In your opinion, how sustainable is the process of recycling phones used by Apple?
- The video mentions “circular supply chain”. What does this mean?
- Do you think developments like Daisy will end our reliance on mining? Why/Why not?
- What other ideas for reducing e-waste have you heard of?

**8. Look at some ideas for solving the e-waste problem and discuss how feasible they are. Then, decide which one would contribute most to reducing e-waste.**

- Introducing regulatory measures for electronics so that they are designed for durability and repairability, for instance by obligating manufacturers to extend warranties to five years.
- Ensuring availability of spare parts and access to repair.
- Improving the treatment of e-waste by forcing manufacturers to research and develop methods of material recycling and reusing.
- Funding the development of solutions for high-quality sorting and removing contaminants from waste.
- Introducing universal phone chargers.