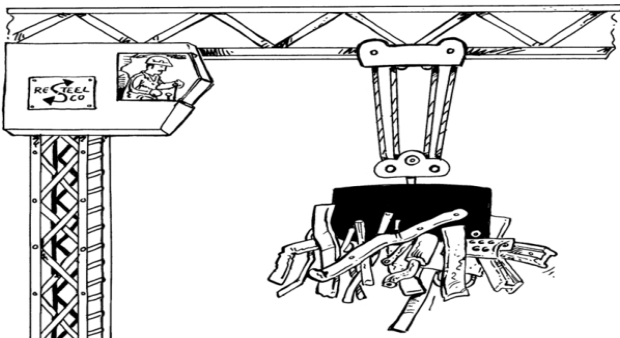


Year 7. Scrap Heap Magnet Challenge (P2)

At metal scrap heaps, metals can be moved and sorted using a large electromagnet.

<p>How do you think a scrap heap magnet works?</p>	
<p>Task: Describe what a scrap heap magnet can do. Explain how a scrap heap magnet works.</p>	

Key words:

attract, electromagnet, iron, magnet, magnetic, magnetism, permanent magnet, repel, steel

Level ladder:

What is your target level? Use the level ladder to help you reach it:

To get level	You might have:
3	<ul style="list-style-type: none"> • Drawn a diagram to show what the scrap heap magnet does. • Stated simply how the scrap heap magnet works. • Identified the magnet. • Stated a type of material that a scrap heap magnet can move.
4	<ul style="list-style-type: none"> • Drawn diagrams to show what a scrap heap magnet does. • Described simply how the scrap heap magnet works. • Stated the types of material a scrap heap magnet can move.
5	<ul style="list-style-type: none"> • Drawn a series of diagrams to describe how a scrap heap magnet works. • Described how the scrap heap magnet works. • Drawn a simple circuit diagram to explain how the machine works. • Stated the types of material a scrap heap magnet can and cannot move.
6	<ul style="list-style-type: none"> • Drawn a series of diagrams to explain how a scrap heap magnet works. • Explained how the scrap heap magnet works. • Drawn an accurate circuit diagram to explain how the magnet works. • Described the types of material a scrap heap magnet can and cannot move. • Described a way the strength of the electromagnet could be increased.
7	<ul style="list-style-type: none"> • Drawn detailed diagrams to explain in detail how a scrap heap magnet works. • Explained how the scrap heap magnet works. • Explained how the strength of the electromagnet can be varied. • Drawn an accurate circuit diagram to explain how the magnet works. • Described the types of material a scrap heap magnet can and cannot move.