

## Task Sheet

# Displacement disco

Use your knowledge and understanding of displacement reactions and particles to draw a cartoon to model a displacement reaction.

Your teacher will show you the reaction between an iron nail and some copper sulphate.

### Task:

Draw a cartoon to explain what is happening in the reaction.

Imagine the molecule is made up of a couple, a man and a woman.

At the disco there is a metal atom, who is much more attractive than the other metal.

So the less attractive metal loses its partner to the more attractive metal.



**Key words:** displacement reaction, metal, non-metal, particle

### Level ladder:

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

Challenge	You might have:
Easy	<ul style="list-style-type: none"><li>• Drawn cartoon characters to represent the chemicals in the reaction.</li><li>• Identified which metal is more reactive than the other, using the reactivity series.</li><li>• Identified the elements and compounds.</li><li>• Described the appearance and properties of the materials before and after the reaction (classified as metals or non-metals).</li></ul>
Medium	<ul style="list-style-type: none"><li>• Drawn cartoon characters to represent the particles in the reaction accurately.</li><li>• Written the word equation for the reaction.</li><li>• Used some symbols to represent the elements.</li><li>• Explained the link between the reactivity series and the displacement reaction.</li><li>• Described why the substances can be classified as elements or compounds.</li><li>• Explained if the mass of the beaker and its contents will stay the same throughout the reaction.</li></ul>
Hard	<p><i>Followed the instructions for level 6, but used detailed knowledge and understanding to describe and explain, and:</i></p> <ul style="list-style-type: none"><li>• Related the cartoon events to the events in the real reaction.</li><li>• Accurately written the word and balanced symbol equation.</li><li>• Used these key words accurately: atom, molecule, element, compound.</li></ul>