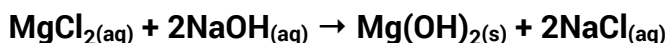


0	1
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Sodium hydroxide solution can be added to magnesium chloride solution. The formula equation for the reaction is shown below:



This is an example of a precipitation reaction.

0	1	.	1
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What is the meaning of the term precipitation reaction?

[2 marks]

.....

.....

0	1	.	2
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What is the colour of this precipitate?

[1 mark]

.....

.....

0	1	.	3
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How could the magnesium hydroxide, $\text{Mg}(\text{OH})_2$, be separated from the products of the reaction?

[1 mark]

.....

.....

0	2
---	---

Two students tested a green compound **X**.
The students added water to compound **X**. Compound **X** did not dissolve.

Student **A** carried out a flame test and observed an intense yellow flame.

Student **B** added sodium hydroxide solution and a blue precipitate formed.

Student **A** concluded that compound **X** was a sodium compound. Student **B** concluded that compound **X** contained copper.

0	2	.	1
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Which student, if any, was correct? Explain your reasoning.

[4 marks]

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.....

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(Total 8 marks)

End