

**AQA, OCR, Edexcel**

**GCSE Science**

# **GCSE Chemistry**

## **Group 7 and Transition Metals Questions**

Includes

Group 7

Properties of transition metals

**M**

**M**

**E**

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**Total Marks:     /27**

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**Group 7**

Q1: What name is given to the elements that are found within group 7 of the periodic table?

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(1 mark)

Q2: Discuss the properties of the group 7 elements.

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(4 marks)

Q3: How do halogen **molecules** differ from other groups?

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(1 mark)

Q4: Name the bond that joins halogen metals.

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(1 mark)

Q5: How many electrons do halogens need to gain to become stable?

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(1 mark)

Q6: Give 2 examples of a halogen.

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(2 marks)

Q7: How does group 7 reactivity alter going down the group?

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(1 mark)

Q8: How does the melting and boiling point alter down the group?

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(1 mark)

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Q9: Explain why the reactivity of Group 7 alters as you go down the group?

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(3 marks)

Q10: The halogens react with metals to form salts. Describe what occurs when different halogens are present in the reaction.

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(2 marks)

***Properties of transition metals***

Q11: Give an example of a transition metal.

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(1 mark)

Q12: Which groups can the transition metals be found between?

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(1 mark)

Q13:

i) Describe the physical properties of the transition metals.

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(3 marks)

ii) Considering the properties you discussed above. Name a transition metal that does not follow these properties.

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(1 mark)

Q14: How do the transition metals differ in reactivity to group 1 metals?

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(1 mark)

Q15: Copper sulphate is a transition metal compound. What colour compound is produced from copper sulphate ions?

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(1 mark)

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Q16: What are transition metals often used for in industry?

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(1 mark)

Q17: What is the Haber process used to make?

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(1 mark)