## MINISTRY OF EDUCATION, HERITAGE AND ARTS

## YEAR 13 CHEMISTRY

## **REVISION WORKSHEET 6**

Write the answers to the following questions in your exercise/activity books.

Reactions Sub-strand: Electrochem	istry
rulate the <b>oxidation number</b> of:	
Cl in Cl <sub>2</sub> O <sub>7</sub>	(1 mark)
S in $S_2O_3^{2^-}$	(1 mark)
$NO_3^- \longrightarrow NO_2^-$	(2 marks)
[Hint: Calculate the oxidation number of N on the LHS and on the RHS, and see whether there is an increase or decrease in oxidation number]	
$C_2O_4^{2-} \longrightarrow CO_2$	(2 marks)
[Hint: Calculate the oxidation number of C on the LHS and on the RHS, and see whether there is an increase or decrease in oxidation number]	
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$SO_3^{2^-}(aq) + MnO_4^-(aq) \longrightarrow SO_4^{2^-}(aq) + Mn^{2^+}(aq)$	
	S in S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> ermine whether each of the equations given below is an <b>oxidation</b> or <b>action</b> half equation: $NO_3^- \longrightarrow NO_2^-$ [Hint: Calculate the oxidation number of N on the LHS and on the RHS, and see whether there is an increase or decrease in oxidation number] $C_2O_4^{2-} \longrightarrow CO_2$ [Hint: Calculate the oxidation number of C on the LHS and on the RHS, and see whether there is an increase or decrease in

$$Cr_2O7^{2^-}(aq) + NO_2^{-}(aq) \longrightarrow Cr^{3^+}(aq) + NO_3^{-}(aq)$$
(4 marks)

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The End