



Name _____ Class _____ Date _____

1 In an **oxidation-reduction reaction**, **reduction** is defined as the

- A loss of protons
- B gain of protons
- C loss of electrons
- D gain of electrons

2 What is the **oxidation number** assigned to **manganese** in KMnO_4 ?

- A +7
- B +2
- C +3
- D +4



NEW PATH LEARNING

3 Which of the following **aqueous solutions** is the best **conductor of electricity**?

A 0.10 M CH_3COOH

4 A **chemical cell** is made up of two half-cells connected by an external conductor and a salt bridge. The **function of the salt bridge** is to

5



PREVIEW

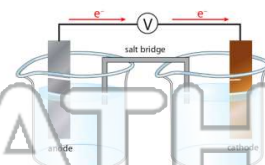
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7

- A $\text{Fe(s)} \rightarrow \text{Fe}^{2+}(\text{aq}) + 2\text{e}^-$
- B $\text{Fe}^{2+}(\text{aq}) \rightarrow \text{Fe(s)} + 2\text{e}^-$
- C $\text{Fe(s)} + 2\text{e}^- \rightarrow \text{Fe}^{2+}(\text{aq})$
- D $\text{Fe}^{2+}(\text{aq}) + 2\text{e}^- \rightarrow \text{Fe(s)}$

supplied by the cell

- A decreases
- B increases
- C remains the same



NEW PATH LEARNING

9

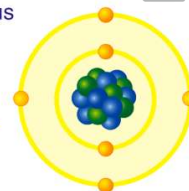
In an **oxidation-reduction reaction**, the **oxidation number** of the **oxidizing agent**

- A decreases
- B increases
- C remains the same

10

As ^{14}C decays to ^{14}N , the number of **protons** in the nucleus

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- B increases
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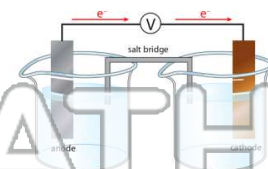
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