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1. What is the oxidized number of Chromium in the chromate ion, CrO_4^{2-} ?

A. +6 B. +3
C. +4 D. +8

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

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

3. Which change occurs when Fe^{2+} is oxidized?

A. The Fe^{2+} gains electrons and its oxidation number increases.
B. The Fe^{2+} gains electrons and its oxidation number decreases.
C. The Fe^{2+} loses electrons and its oxidation number increases.
D. The Fe^{2+} loses electrons and its oxidation number decreases.

4. Write the balanced net ionic equation representing a reaction.

$$2Al^{3+}(aq) + 3H_2(g) \rightarrow 2Al(s) + 3H_2^{+}(aq) + 2H_2(l)$$

In this reaction, electrons are transferred from

A. Al to H_2^{+} C. H_2 to Al
B. H_2^{+} to Al D. H_2^{+} to Al

5. Half-reactions can be written to represent all

A. double displacement reactions
B. neutralization reactions
C. fusion and fission reactions
D. oxidation and reduction reactions

6. In an oxidation-reduction reaction, reduction is defined as the

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

7. In which reaction are electrons transferred from one reactant to another reactant?

A. $2H_2O(l) + O_2(g) \rightarrow 2H_2O_2(l)$
B. $AgNO_3(aq) + KCl(aq) \rightarrow AgCl(s) + KNO_3(aq)$
C. $BF_3(g) + NH_3(g) \rightarrow BF_3NH_3(g)$
D. $H_2O_2(aq) + H^+(aq) \rightarrow 2H_2O(l)$

8. Which balanced equation represents a redox reaction?

A. $AgNO_3 + NaCl \rightarrow AgCl + NaNO_3$
B. $BaCl_2 + K_2CO_3 \rightarrow BaCO_3 + 2KCl$
C. $2Na + Cl_2 \rightarrow 2NaCl$
D. $HCl + KOH \rightarrow KCl + H_2O$

9. Which metal reacts spontaneously with a solution containing zinc ions?

A. magnesium C. copper
B. nickel D. silver

10. Which reaction is an example of an oxidation-reduction reaction?

A. $Ag_2PO_4 + KI \rightarrow AgI + KPO_4$
B. $Cu + 2AgNO_3 \rightarrow Cu(NO_3)_2 + 2Ag$
C. $2KOH + H_2SO_4 \rightarrow K_2SO_4 + 2H_2O$
D. $BaCO_3 + 2HCl \rightarrow BaCl_2 + 2H_2O$

11. Given the reaction:



Which species undergo reduction?

A. Al C. Al^{3+}
B. Fe D. Fe^{3+}

12. According to Reference Table A, which of these metals will react most readily with 1.0M HCl to produce $H_2(g)$?

A. Cu C. Mg
B. K D. Zn

13. Given the balanced equation representing a redox reaction:

$$2Al + 3Cu^{2+} \rightarrow 2Al^{3+} + 3Cu$$

Which statement is true about this reaction?

A. Each Al loses 2e and each Cu^{2+} gains 2e.
B. Each Al loses 3e and each Cu^{2+} gains 2e.
C. Each Al^{3+} gains 2e and each Cu loses 2e.
D. Each Al^{3+} gains 3e and each Cu loses 2e.

14. Given the redox reaction:



In the reaction above, Ni acts as a reductant if

A. electrons flow from Ni to Cr^{3+} C. protons flow from Ni to Cr^{3+}
B. electrons flow from Cr^{3+} to Ni D. protons flow from Cr^{3+} to Ni

15. Which half-reaction correctly represents reduction?

A. $Ag \rightarrow Ag^{+} + e^{-}$
B. $Fe \rightarrow 2Fe^{2+} + 2e^{-}$
C. $Ni^{2+} + 2e^{-} \rightarrow Ni$
D. $Fe^{2+} + e^{-} \rightarrow Fe^{+}$

16. Which equation shows conservation of both mass and charge?

A. $Cl_2 + 2Fe \rightarrow 2Cl + 2Fe$
B. $Cu + 2Ag^{+} \rightarrow Cu^{2+} + Ag$
C. $Zn + Cu^{2+} \rightarrow Zn^{2+} + Cu$
D. $H_2 + Fe^{2+} \rightarrow H_2^{2+} + Fe$

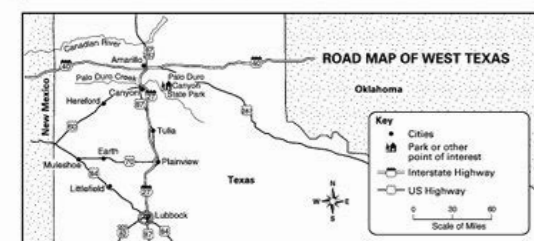
17. Which half-reaction can occur at the anode in a voltaic cell?

A. $Mg \rightarrow Mg^{2+} + 2e^{-}$ C. $Zn \rightarrow Zn^{2+} + 2e^{-}$
B. $Sn + 2e^{-} \rightarrow Sn^{2+}$ D. $Fe^{2+} \rightarrow Fe^{3+} + e^{-}$

Name _____ Date _____

A Road Map

A road map shows the roads in a place. Road maps can show small areas, like the streets in a town. Or the maps can show large areas, like highways across the United States. These maps show how to travel from one place to another. They also show how far apart the places are. A distance scale is like a small ruler on a map. It shows the distance in miles.



(Directions) Look at the map of west Texas. Answer the questions.

- Find Amarillo on the map. What is the major east-west road that passes through Amarillo?
- Find Lubbock on the map. What is the distance between Amarillo and Lubbock?
- Find Midland on the map. What direction would you travel from Amarillo to Midland?

Name _____ Class _____ Date _____

NEWTON'S LAWS WORKSHEET

Directions: Fill in the information below. Use the word bank below to help you with the completion questions.

velocity unbalanced force accelerate
speed balanced or non-reaction mass action
inertia force and acceleration equal
direction opposite

I. NEWTON'S FIRST LAW OF MOTION

- Newton's first law of motion is also known as the LAW OF _____.
- Newton's first law says that:
 - an object that is NOT MOVING, or is at _____, will stay at _____ AND _____.
 - an object that IS MOVING will keep moving with constant _____, which means at the same _____ UNLESS _____ force acts on that object.
- What is inertia?
- What property of an object determines how much inertia it has?
- Which of the following has more inertia?
 - bowling ball or tennis ball
 - hammer or feather

II. NEWTON'S SECOND LAW OF MOTION

- Newton's second law of motion is also known as the LAW OF _____.
- Newton's second law says that when an _____ force is applied to a _____, it causes it to _____.
- The greater the force that is applied, the _____ the acceleration.
- The lesser the force that is applied, the _____ the acceleration.
- If the same force is applied to an object with a large mass, it will have a _____ acceleration.

Types of Chemical Reaction Worksheet Name _____

- Balance the reactions and indicate which types of chemical reaction are being represented.
- $H_2 + O_2 \rightarrow H_2O$ Reaction Type _____
 - $NH_3 + H_2SO_4 \rightarrow (NH_4)_2SO_4$ Reaction Type _____
 - $CH_4 + O_2 \rightarrow CO_2 + H_2O$ Reaction Type _____
 - $Pb + H_2PO_4 \rightarrow H_2 + Pb_3(PO_4)_2$ Reaction Type _____
 - $LiN + NH_4NO_3 \rightarrow LiNO_3 + (NH_4)_2N$ Reaction Type _____
 - $HBr + Al(OH)_3 \rightarrow H_2O + AlBr_3$ Reaction Type _____
 - $Na_2PO_4 + KOH \rightarrow NaOH + K_3PO_4$ Reaction Type _____
 - $MgCO_3 + Li_2CO_3 \rightarrow MgCO_3 + Li_2CO_3$ Reaction Type _____
 - $CH_4 + O_2 \rightarrow CO_2 + H_2O$ Reaction Type _____
 - $Pb + FeSO_4 \rightarrow PbSO_4 + Fe$ Reaction Type _____
 - $CaCO_3 \rightarrow CaO + CO_2$ Reaction Type _____
 - $P_4 + O_2 \rightarrow P_2O_5$ Reaction Type _____
 - $RbNO_3 + BiF_3 \rightarrow Rb(NO_3)_3 + RbF$ Reaction Type _____
 - $AgNO_3 + Cu \rightarrow Cu(NO_3)_2 + Ag$ Reaction Type _____
 - $C_2H_6 + O_2 \rightarrow CO_2 + H_2O$ Reaction Type _____
 - $C_2H_6 + Fe \rightarrow Fe(C_2H_5)_2$ Reaction Type _____
 - $SnCl_4 + O_2 \rightarrow SnO_2 + Cl_2$ Reaction Type _____
 - $Mg + MnSO_4 \rightarrow MgSO_4 + Mn$ Reaction Type _____
 - $O_2 \rightarrow O + O$ Reaction Type _____
 - $NO_2 \rightarrow O_2 + N_2$ Reaction Type _____

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