

6.2 Classifying Chemical Equations (E) Prequiz

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. The word equation solid carbon + oxygen gas \rightarrow carbon dioxide gas + energy, represents a chemical reaction because
- the reaction releases energy.
 - CO₂ has chemical properties that differ from those of C and O.
 - the reaction absorbs energy.
 - CO₂ is a gas and carbon is a crystal.
- _____ 2. A reaction of a hydrocarbon, in which carbon dioxide and water are produced, is classified as a
- decomposition reaction.
 - combustion reaction.
 - double-displacement reaction.
 - synthesis reaction.
- _____ 3. In what kind of reaction do two or more substances combine to form a new compound?
- decomposition reaction
 - ionic reaction
 - double-displacement reaction
 - synthesis reaction
- _____ 4. The equation $A + X \rightarrow AX$ is the general equation for a(n)
- combustion reaction.
 - ionic reaction.
 - synthesis reaction.
 - double-displacement reaction.
- _____ 5. In what kind of reaction does a single compound produce two or more simpler substances?
- decomposition reaction
 - synthesis reaction
 - displacement reaction
 - ionic reaction
- _____ 6. The reaction $2KClO_3(s) \rightarrow 2KCl(s) + 3O_2(g)$ is a(n)
- synthesis reaction.
 - decomposition reaction.
 - combustion reaction.
 - ionic reaction.
- _____ 7. The reaction $Cl_2(g) + 2KBr(aq) \rightarrow 2KCl(aq) + Br_2(l)$ is a(n)
- synthesis reaction.
 - ionic reaction.
 - displacement reaction.
 - combustion reaction.
- _____ 8. What is the name of a list of elements arranged according to the ease with which they undergo certain chemical reactions?
- reactivity list
 - reaction sequence
 - activity series
 - periodic list

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Answer Section****MULTIPLE CHOICE**

1. ANS: B PTS: 1 DIF: I OBJ: 8.1.2
 STA: II.II.9-12.12
2. ANS: B PTS: 1 DIF: I OBJ: 8.3.1
 STA: II.II.9-12.13
3. ANS: D PTS: 1 DIF: I OBJ: 8.3.2
 STA: II.II.9-12.13
4. ANS: C PTS: 1 DIF: II OBJ: 8.3.2
 STA: II.II.9-12.13
5. ANS: A PTS: 1 DIF: I OBJ: 8.3.3
 STA: II.II.9-12.13
6. ANS: B PTS: 1 DIF: I OBJ: 8.3.3
 STA: II.II.9-12.13
7. ANS: C PTS: 1 DIF: II OBJ: 8.3.4
 STA: II.II.9-12.13
8. ANS: C PTS: 1 DIF: I OBJ: 8.3.4
 STA: II.II.9-12.12