

A Reactionary Puzzle

Fill in the blanks in the clues below. Then use the clues to complete the puzzle on the next page.



1. A number written below and to the right of a chemical symbol in a formula is called a _____
2. In a _____ replacement reaction, ions in two compounds switch places.
3. The _____ energy is the minimum amount of energy required for substances to react.
4. A chemical _____ is the process by which one or more substances undergo change to produce one or more different substances.
5. The law of _____ of _____ states that mass cannot be created or destroyed in ordinary chemical or physical changes. A similar law holds true for _____
6. In a _____ reaction, a single compound breaks down to form two or more simpler substances.
7. In _____ reactions energy is released, and in _____ reactions energy is absorbed.
8. In a _____ reaction, two or more substances combine to form a single compound.
9. A chemical _____ describes a substance using chemical symbols and numbers.
10. A number written to the left of a chemical symbol or formula is called a _____
11. In a _____-replacement reaction, one element replaces another that is part of a compound.
12. A chemical _____ is a shorthand description of a chemical reaction.
13. In a chemical reaction, each starting material is a _____ and each new substance formed is a _____

14. A _____ speeds up a reaction, and an _____ slows down a reaction.

How many chapter concepts can you find in the block of letters below? Use the clues to help you find them. Words may appear horizontally, vertically, or diagonally.

D	C	Q	R	E	A	C	T	A	N	T	B	Y	C
C	E	X	O	T	H	E	R	M	I	C	G	A	O
D	O	C	A	T	A	L	Y	S	T	R	E	K	E
S	T	N	O	R	V	P	I	I	E	J	I	A	F
U	F	V	S	M	N	S	I	N	G	L	E	C	F
B	O	U	Y	E	P	X	E	H	J	E	R	T	I
S	R	F	N	Q	R	O	Q	I	Q	Q	E	I	C
C	M	J	T	T	O	V	S	B	Z	U	A	V	I
R	U	O	H	O	D	M	A	I	P	A	C	A	E
I	L	R	E	S	U	F	G	T	T	T	T	T	N
P	A	I	S	A	C	I	F	O	I	I	I	I	T
T	U	A	I	K	T	A	U	R	D	O	O	O	G
F	M	H	S	D	O	U	B	L	E	N	N	N	D
E	N	D	O	T	H	E	R	M	I	C	Q	N	K