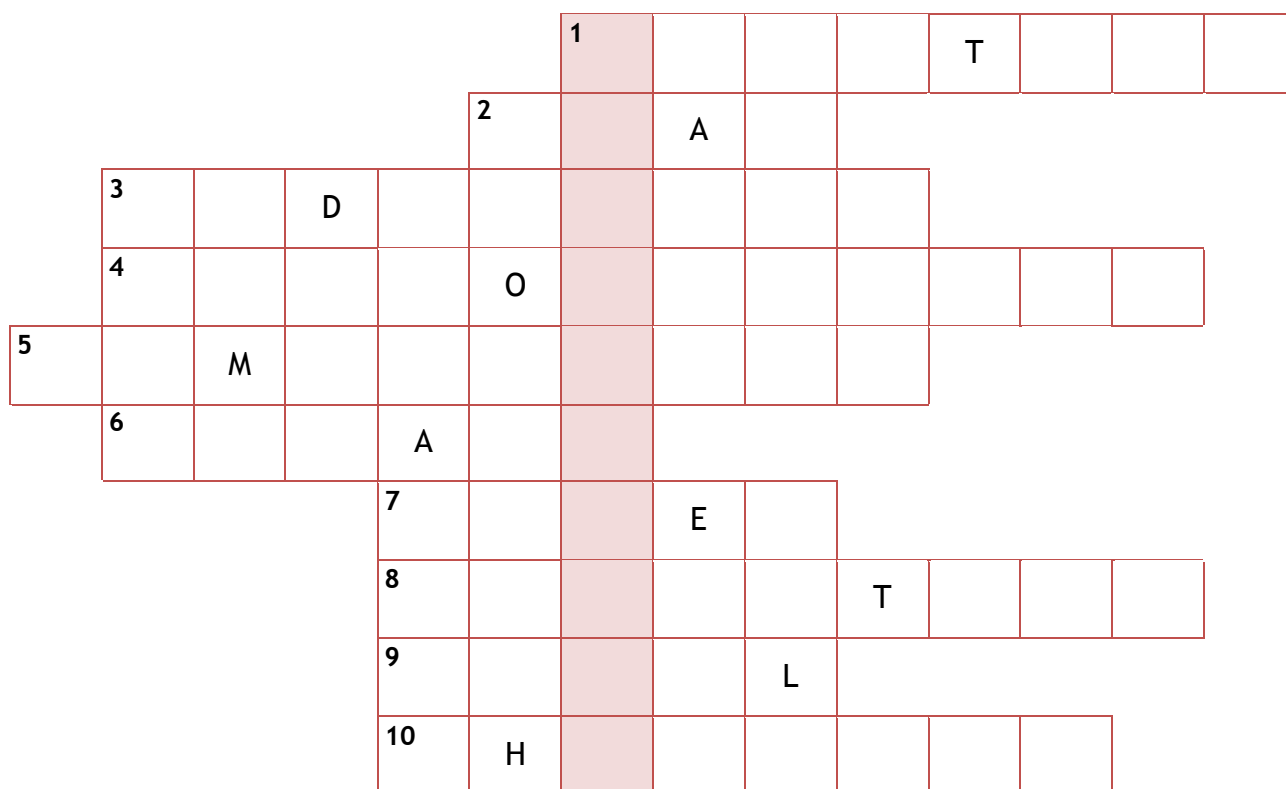


This crossword tests your knowledge of chemical reactions.

Answer all the clues across to identify **1 down** which describes a 'type of series' that metals are arranged in which shows the order of how readily they react with other substances.



Clues across

1. A substance that appears on the left-hand-side of the chemical equation. [8]
2. Acetic and citric acids are examples of this type of acid. [4]
3. A substance that is used to indicate whether unknown solutions are acidic or alkaline. [9]
4. This acid forms salts that are called chlorides. [10]
5. This is a chemical reaction with oxygen in which lots of energy is transferred to the surroundings. [12]
6. A soluble substance that neutralises acids. [6]
7. The pH value of a neutral solution. [5]
8. A chemical reaction in which a substance combines with oxygen. [9]
9. A substance that is normally shiny, malleable and ductile. [5]
10. During a _ _ _ _ _ _ _ _ change there are no new substances formed. [8]

Answers

| | | | | | | | | | | | | | | |
|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | R | E | A | C | T | A | N | T | |
| | | | | 2 | W | E | A | K | | | | | | |
| | 3 | I | N | D | I | C | A | T | O | R | | | | |
| | 4 | H | Y | D | R | O | C | H | L | O | R | I | C | |
| 5 | C | O | M | B | U | S | T | I | O | N | | | | |
| | 6 | A | L | K | A | L | I | | | | | | | |
| | | | | | 7 | S | E | V | E | N | | | | |
| | | | | | 8 | O | X | I | D | A | T | I | O | N |
| | | | | | 9 | M | E | T | A | L | | | | |
| | | | | | 10 | P | H | Y | S | I | C | A | L | |