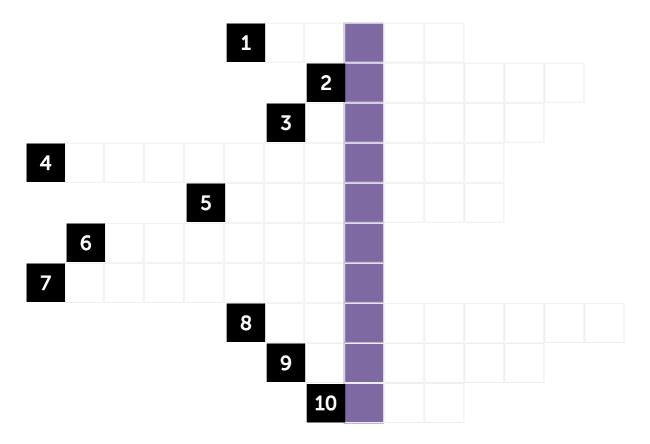
Р	R	٧	Α	N	Т	D	Α	٧	Р	Р	L	Т	0	N
J	Т	Q	Ε	С	Z	Ν	D	К	R	D	Q	S	N	U
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L	٧	D	Μ	0	0	R	G	D	С	F	L	W	С	Р
Α	Z	F	N	N	М	E	F	G	I	L	Α	М	Y	Т
С	J	S	S	М	R	Т	L	Т	Р	Α	Т	Y	В	Ε
I	Z	S	V	0	I	E	I	W	I	М	N	Т	Μ	S
Т	R	N	S	М	L	М	I	В	Т	Ε	Е	S	U	W
Υ	Т	0	U	Ε	S	0	Р	Т	Α	Т	M	Н	R	0
L	U	I	Α	Т	L	Т	Р	Ε	Т	Ε	U	F	Т	Q
Α	I	Т	В	Α	Т	0	В	L	I	S	R	Z	С	К
N	Т	Α	Р	L	L	Н	Q	М	0	Т	Т	Z	Ε	F
Α	I	С	Т	Υ	Т	Р	Q	R	Ν	R	S	R	Р	٧
В	W	U	Y	М	L	N	0	F	W	٧	N	Р	S	Z
I	U	0	Ε	F	К	٧	Χ	Н	J	В	I	S	L	S

HINTS

flametest ions cations anions precipitation instrumental photometer spectrum analytical metal



HINTS

- 1 Advantage to instrumental methods
- 2 You test for these ions using silver nitrate
- 3 Flame test: Ion produces a blue green colour
- 4 Flame photometer readings can be used to plot a _____ curve
- 5 Cation test: turns damp, red litmus paper blue
- 6 Flame test: Ion produces a orange red colour
- 7 ____ test result for sulfate ions produces a white precipitate
- 8 Flame test: on produces a lilac colour
- **9** Flame test: Sodium ions
- 10 Flame test: Lithium ions

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ACROSS

- 1 Used if there is a mixture of ions, one colour may be covered up by another in a flame test.
- This ion test involves heating metal ions to produce colours
- 7 Acid used in the first step of testing for halides
- 9 Colour of precipitate of copper(II) ions using NaOHH
- 10 Advantage of instrumental methods

DOWN

- 2 The type of metals that produced coloured ions
- 4 Every element has its own specific set of wavelengths, so every pattern is unique (can be thought of as an element's 'fingerprint')
- 5 Advantage of instrumental methods
- 6 The types of ions that metals form
- 8 Colour of precipitate of iron(III) ions using NaOHH