# READING THE PERIODIC TABLE MAP

Periods, groups, metals and non-metals



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# ACROSS OR DOWN?



## Periods

- Rows that run across the table
- Row 3 means period 3
- Show increasing atomic number order

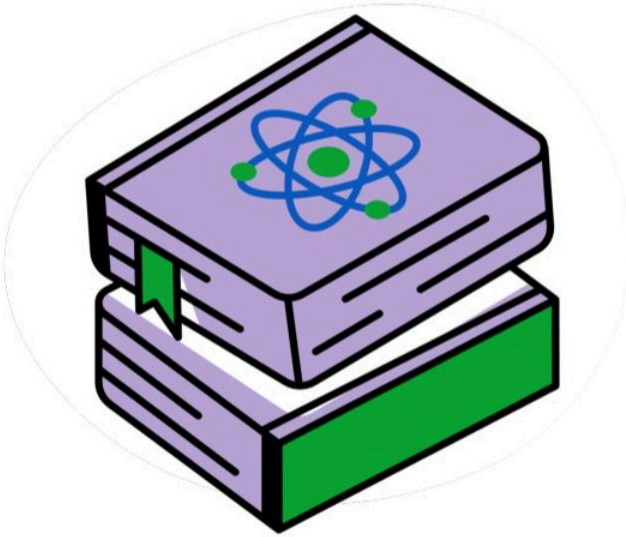
## Groups

- Columns that run down the table
- Column 2 means group 2
- Elements behave in similar ways



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# ORDERED BY NUMBER



🔢

## Atomic number

Each element has a count that decides its place.

⬆️

## Increasing order

The table lists elements in order of increasing atomic number.

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## Magnesium 12

Find 12, then read Row 3 and Column 2.

📍

## Say it

Magnesium is period 3, group 2.



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# WHAT SHOULD OUR KEY SHOW?

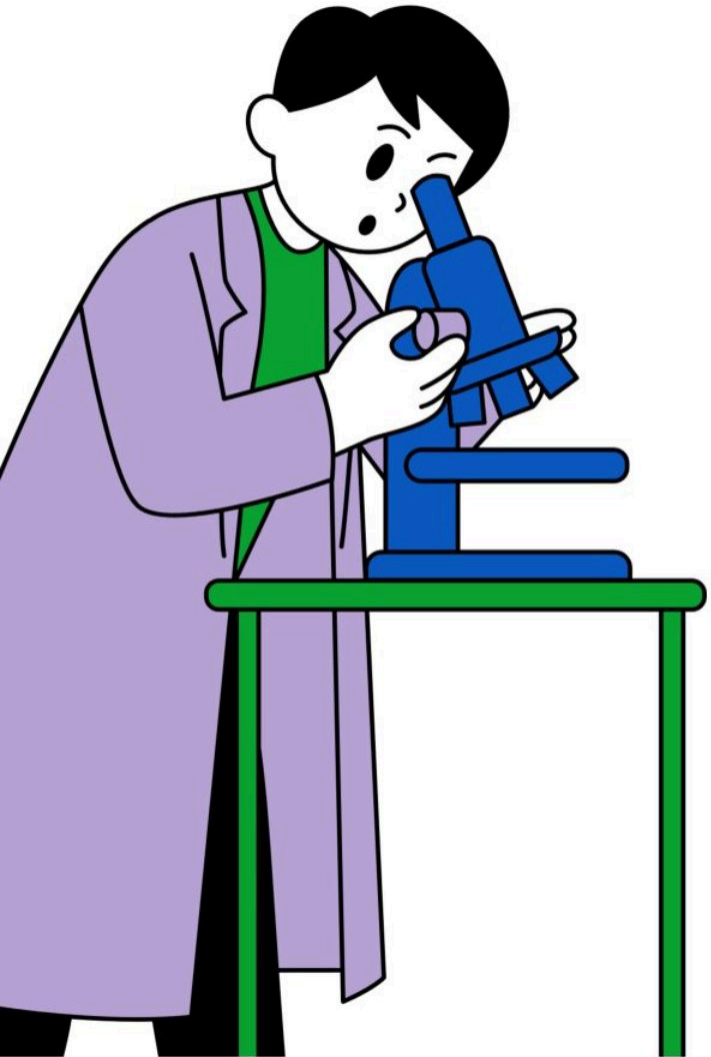
**If the table is a map, what should we colour first?**

- **A** Metal areas
- **B** Period rows
- **C** Group columns

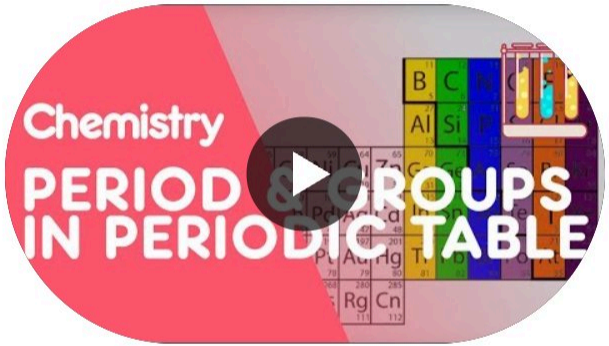


Vote with your hands, then explain why.

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# PERIODS AND GROUPS ON THE MOVE




▶ 0:00 – 3:04

- Watch across for periods
- Watch down for groups
- Spot how to find any element fast



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# SHINY OR DULL?



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## Metals

Shiny, bendy and carry heat well.

## Non-metals

Dull, brittle and do not carry well.

⚡

## Zigzag line

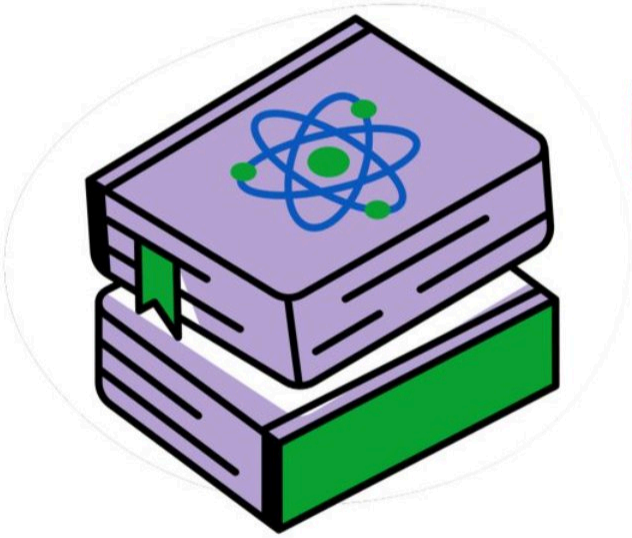
Metals sit left, non-metals sit right.

## Copper wires

Copper conducts, so it suits wires.

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# HOW THE TABLE WORKS






▶ 0:00 – 4:31

- Spot layout into periods and groups
- Spot metals versus non-metals
- Listen for everyday uses



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# YOUR TASK

**In pairs, colour-code your table so the patterns jump out.**

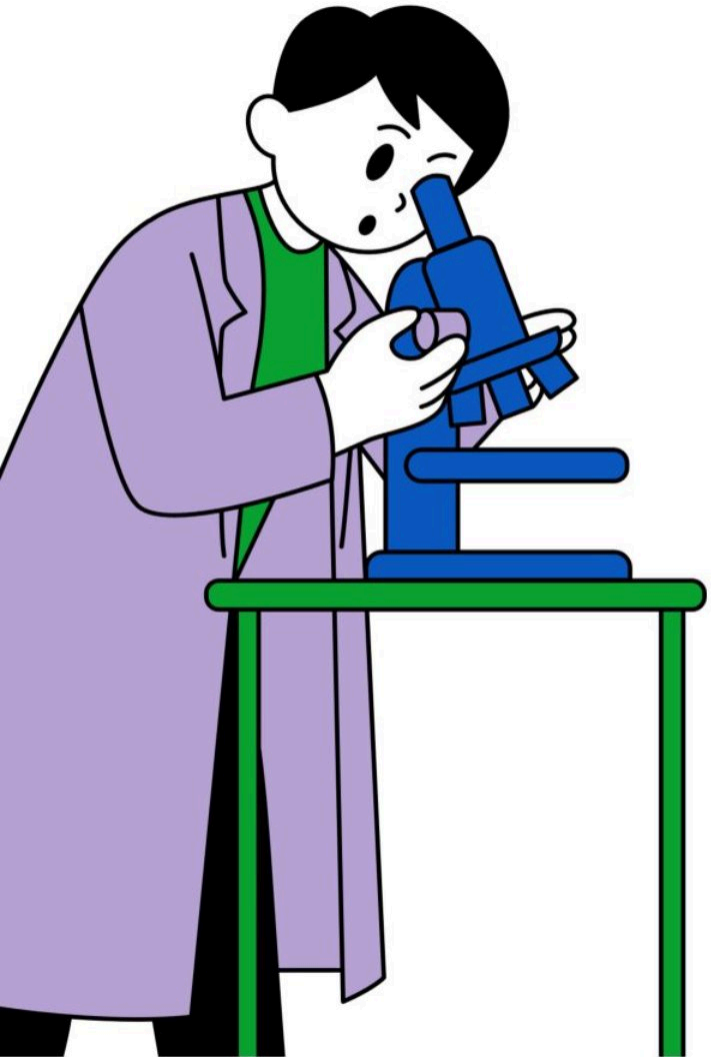
1. Draw Rows 2-3 and label Groups 1, 2, 13-18.
2. Shade Group 1 and mark the zigzag divide.
3. Add a key with one period, group and metal example.

**20 min**

**In pairs**



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# KEY WORDS

**period**

a row running across the table

**group**

a column running down the table

**atomic number**

the count that sets the order

**metal**

shiny, bendy material that conducts well

**non-metal**

dull, brittle material that conducts poorly

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# THINK, PAIR, SHARE

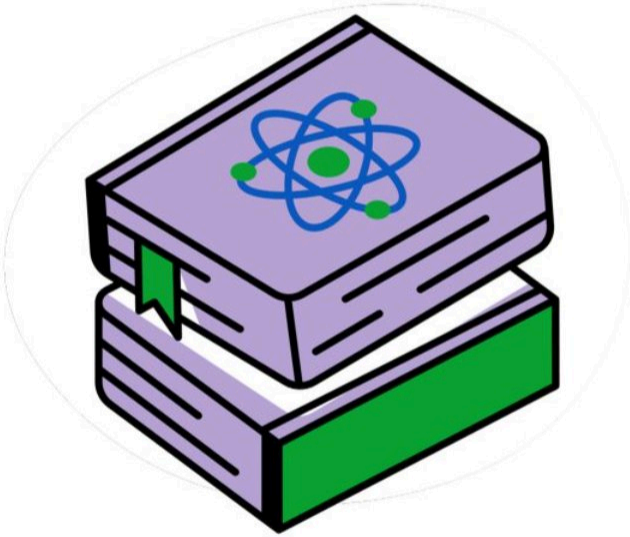
**Table salt comes from a soft metal and a sharp-smelling gas. Why are they in different groups?**






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# QUICK QUIZ



1. Neon is Row 2, Column 18. Give period, group and type.
2. How are modern elements ordered?
3. Periods are rows across. True or false?
4. Where do metals sit?


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