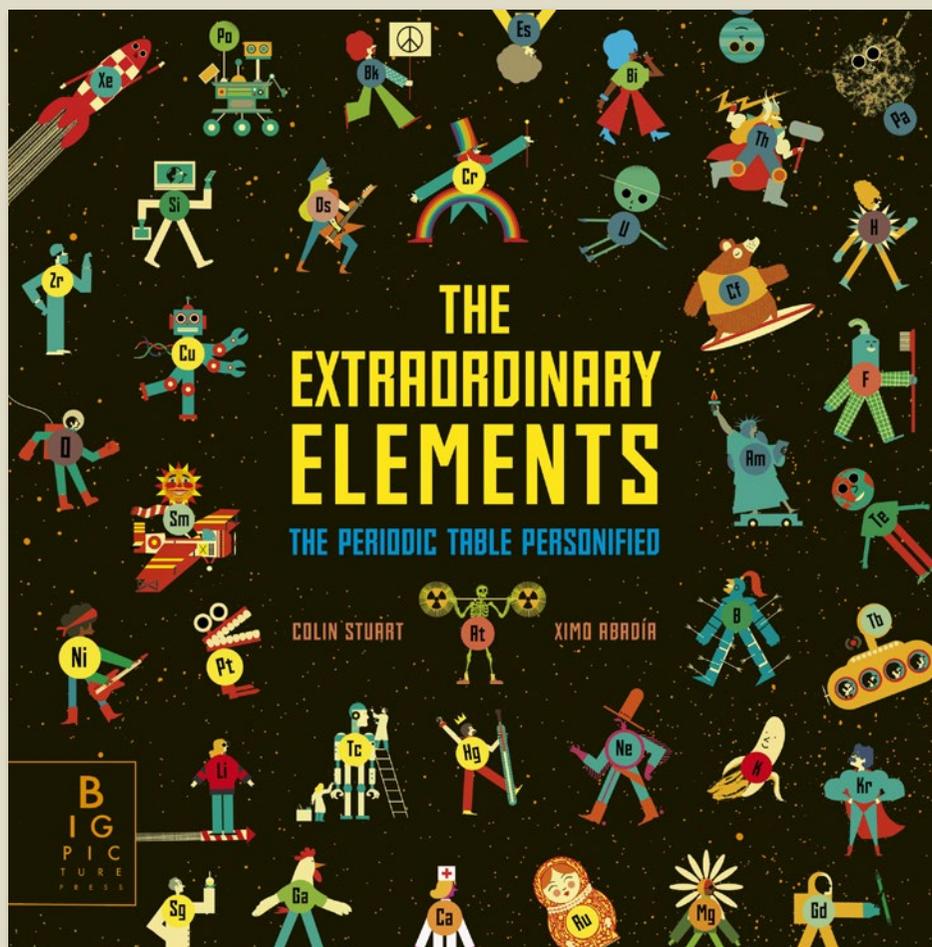


# The Extraordinary Elements



**This lively periodic table book presents the extraordinary elements as you've never seen them before.**

- Easy-to-access, visual information
- Fun characters help commit scientific facts to memory
- Lightweight and pocket-sized - ideal portable format
- Perfect for KS3 students or general interest readers
- Matt lam, 100% spot UV and deboss cover treatments

# The Extraordinary Elements

## CHLORINE

**STATE AT 20°C**  
A yellow-green gas with a strong, pungent odour.

**WHERE ON EARTH?**  
Found in seawater and in the Earth's crust.

**DANGER TO LIFE**  
No known biological role. It is highly toxic.

**SPECIAL USES**  
Disinfectant, bleach, and in the production of plastics.

**DISCOVERED IN 1774**

**ATOMIC MASS: 35.45**

**ELECTRON CONFIGURATION:** [Ne] 3s<sup>2</sup> 3p<sup>5</sup>

**ELEMENT RANKINGS:** 17th most abundant in the Earth's crust.

## ARGON

**STATE AT 20°C**  
A colourless, odourless gas.

**WHERE ON EARTH?**  
Found in the Earth's atmosphere.

**DANGER TO LIFE**  
No known biological role. It is inert.

**SPECIAL USES**  
Used in light bulbs, welding, and in the production of stainless steel.

**DISCOVERED IN 1868**

**ATOMIC MASS: 39.95**

**ELECTRON CONFIGURATION:** [Ne] 3s<sup>2</sup> 3p<sup>6</sup>

**ELEMENT RANKINGS:** 18th most abundant in the Earth's crust.

## ASTATINE

**STATE AT 20°C**  
A radioactive element that is solid at room temperature.

**WHERE ON EARTH?**  
Found in trace amounts in the Earth's crust.

**DANGER TO LIFE**  
No known biological role. It is highly radioactive.

**SPECIAL USES**  
Used in medical research and in the production of isotopes.

**DISCOVERED IN 1940**

**ATOMIC MASS: 210**

**ELECTRON CONFIGURATION:** [Xe] 4f<sup>14</sup> 5d<sup>10</sup> 6s<sup>2</sup> 6p<sup>5</sup>

**ELEMENT RANKINGS:** 85th most abundant in the Earth's crust.

## RADIUM

**STATE AT 20°C**  
A radioactive metal that glows blue in the dark.

**WHERE ON EARTH?**  
Found in uranium ores.

**DANGER TO LIFE**  
No known biological role. It is highly radioactive and toxic.

**SPECIAL USES**  
Used in cancer treatment and in the production of isotopes.

**DISCOVERED IN 1898**

**ATOMIC MASS: 226**

**ELECTRON CONFIGURATION:** [Rn] 7s<sup>2</sup>

**ELEMENT RANKINGS:** 88th most abundant in the Earth's crust.

## ACTINIUM

**STATE AT 20°C**  
A soft, silvery-white metal which glows blue in the dark.

**WHERE ON EARTH?**  
Found in uranium ores.

**DANGER TO LIFE**  
No known biological role. It is radioactive and highly toxic.

**SPECIAL USES**  
Limited use outside of research.

**DISCOVERED IN 1899**

**ATOMIC MASS: 227**

**ELECTRON CONFIGURATION:** [Rn] 7s<sup>2</sup>

**ELEMENT RANKINGS:** 89th most abundant in the Earth's crust.

## THORIUM

**STATE AT 20°C**  
A silvery, radioactive metal.

**WHERE ON EARTH?**  
Found in the minerals thorite, thorianite and monazite.

**DANGER TO LIFE**  
No known biological role. It is radioactive and highly toxic.

**SPECIAL USES**  
Nuclear power, high-quality camera lenses.

**DISCOVERED IN 1829**

**ATOMIC MASS: 232.038**

**ELECTRON CONFIGURATION:** [Rn] 7s<sup>2</sup>

**ELEMENT RANKINGS:** 90th most abundant in the Earth's crust.

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