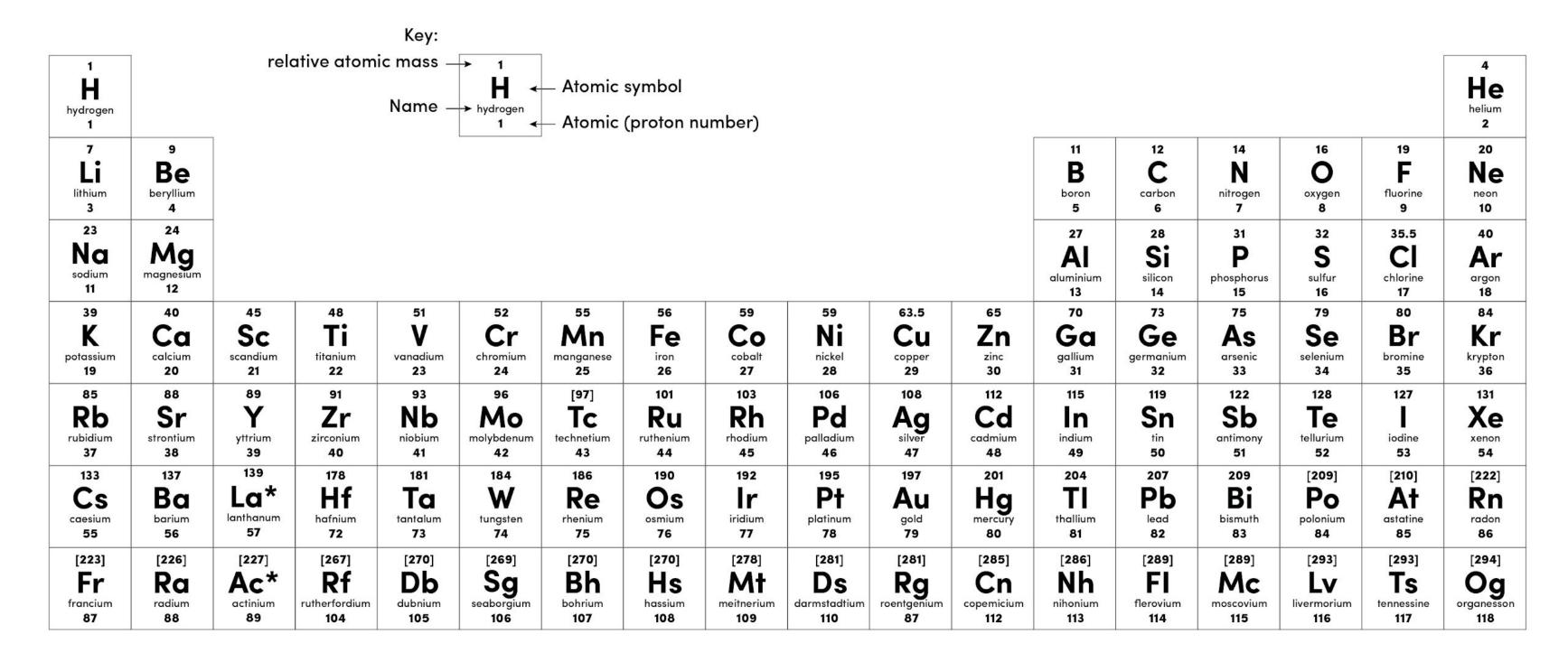
Combined Science - Chemistry - Key Stage 4 Atomic Structure & the Periodic Table

Atomic structure





Periodic Table of Elements





Independent practice (questions 1-5)

Write your answers using full sentences:

- 1. What does the word subatomic mean?
- 2. What are the three subatomic particles found inside an atom?
- 3. Which subatomic particles are found in the nucleus of an atom?
- 4. Which subatomic particles are found on shells orbiting the nucleus?
- 5. What is the mass of a proton?



Independent practice (questions 6-10)

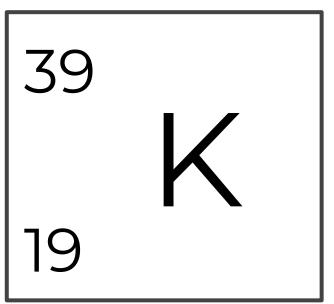
Write your answers using full sentences:

- 6. What is the charge of a proton?
- 7. What is the mass of an electron?
- 8. What is the charge of an electron?
- 9. What is the mass of a neutron?
- 10. What is the charge of a neutron?



Independent practice

- 4. For the element shown in the diagram, answer the following questions:
 - a. State the atomic number of this element.
 - b. State the atomic mass of this element.
 - c. State the number of protons.
 - d. State the number of electrons
 - e. Calculate the number of neutrons





Exam style question (Extended writing)

Aluminium is a metal that used to make the bodies of aeroplanes. An aluminium atom has an atomic number of 13 and a mass number of 27.

Describe the atomic structure of aluminium. Include in your answer:

- The number of each type of each subatomic particle
- The charges and mass of each subatomic particle
- The location in the atom that each particle is found.

