

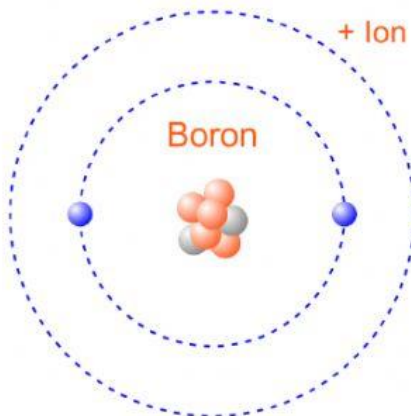
Name

Date _____

Class

Structure of Matter Review

Protons: 
Neutrons: 
Electrons: 



Model:

 Orbits

☐ Cloud

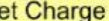
Protons Neutrons Electrons

Element


The image shows a periodic table of elements. A large black box with the letter 'B' is centered over the table. A red box highlights the element Boron (B) in the top row, second column. The periodic table includes the following elements:

H																			He
Li	Be																		
Na	Mg																		
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr		
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe		
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn		
Fr	Ra	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	Lv	Ts	Og		

Net Charge

A diagram showing a blue and red semi-circle with a minus sign and a plus sign separated by a diagonal line. Below it is a white box with a red plus sign and the number 3. To the right is a white box with two red plus signs and a minus sign, followed by three red plus signs.

Mass Number

A balance scale with a central weight labeled with the number 7. The scale is balanced, with equal weights on both pans.

Show

- | |
|---|
| <input checked="" type="checkbox"/> Element |
| <input checked="" type="checkbox"/> Neutral/Ion |
| <input type="checkbox"/> Stable/Unstable |



Use the model above to answer the questions

1. What is the chemical symbol (1 or 2 letters) for the element?

2. How many protons are in the nucleus?

3. How many neutrons are in the nucleus?

4. What is the mass number?

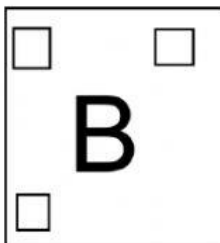
Table 1 Summary of the 1000 Genomes Project

5. How many electrons are in the model?

6. What is the net charge?

7. Is this a neutral atom, cation, or anion?

8. Fill in the three boxes in the atomic symbol:



Protons: ●●●●●●●●

Neutrons: ●●●●●●●●

Electrons: ●●●●●●●●

Element

Symbol

Protons

Neutrons

Electrons

Model:

● Orbits

○ Cloud

Show

☒ Element
☒ Neutral/Ion
☐ Stable/Unstable

Use the model above to answer the questions

9. What is the chemical symbol (1 or 2 letters) for the element? _____
10. What is the name of the element? _____
11. How many protons are in the nucleus? _____
12. How many neutrons are in the nucleus? _____
13. What is the mass number? _____
14. How many electrons are in the model? _____
15. What is the net charge? _____
16. Is this a neutral atom, cation, or anion? _____

17. Complete the chart below to describe the three particles that make up atoms:

Particle	Charge	Relative Mass	Location in the Atom
<u>Electron</u>			
<u>Proton</u>			
<u>Neutron</u>			