

Super Hero/Villain

Elements Project



SuperHero/Villain

Hero presentation

- You have been hired by Elements of the Universe, a comic book publisher, to create a new superhero.
- Your superhero (or villain) will have the appearance, characteristics and powers based on an element in the periodic table.



GOLDEN GOLD MAN

- Personify one element on the periodic table. Your element's physical features and personality must relate with the real physical and chemical properties of the element.

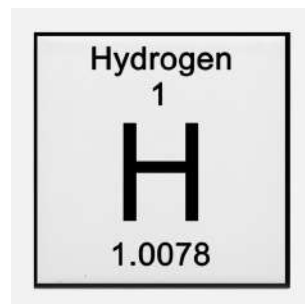


- You will conduct research to find information regarding their assigned element.
- Use the Periodic Table App from the Royal Society of Chemistry
<https://www.rsc.org/periodic-table>

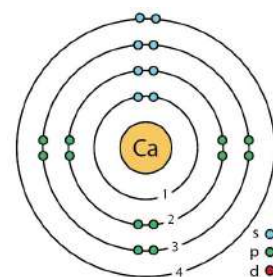
- Create a poster for your Element Superhero/Villain that illustrates this information and will include:
 - a creative name
 - a drawing of your superhero/villain
 - 5 facts about your element
 - the element symbol and the Bohr model of your element
- Write a story about the superhero/villain that explains how he/she got his/her powers and how they related to the element you researched.
- Be creative!

Poster Requirements:

- **TITLE:** Creative name of superhero/villain.
- Name of your element
- Include the unique symbol of your specific element
- **DRAWING OF YOUR ELEMENT SUPERHERO/VILLAIN:** This section should include a drawing (in color) of your Element Superhero/villain, following the instructions from the previous slide.
- **5 FACTS** This section should include at least 5 fun facts about your element. You will describe:
 - facts that illustrate where your element is found in nature.
 - what is your element used for.
 - what are characteristics of your element or
 - what are important uses of your element.
 - For example, can your element be made into something useful or can your element combine with other elements to make something totally different.)
- **BOHR MODEL** Include the unique bohr model of your specific element, with appropriate number of electrons on the rings.



Element symbol



Bohr Model

- **SEE EXAMPLES at the end**

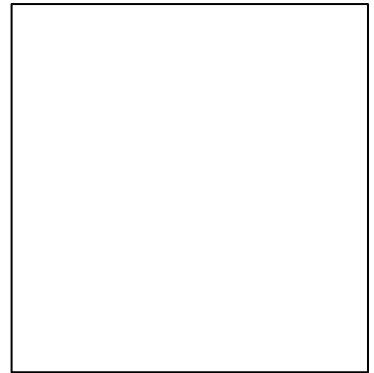
Story Requirements

- **DESCRIPTION OF ELEMENT SUPERHERO:** This section should include a half-page description of what your superhero looks like (physical description) and how he/she uses, or lives with their element power.
 - Physical description: What does your element/hero look like?
 - What does it feel like? Color? Solid, liquid or gas
 - You may want to describe:
 - Where does your superhero element live (where in nature can it be found)?
 - What are his/her superpowers?
 - Does your superhero element have a hideout?
 - What are his/her strengths? What is his/her weakness?
 - Who is his/her arch nemesis (evil super villain)?
 - What additional element(s) could combine with your superhero to make him/her more powerful?
- Use the following questions about your element to help guide your written part:
 - What is your element's Boiling point, Freezing/Melting Point?
 - What is his/her atomic mass 3. Atomic number?
 - What family is he/she in? Alkali metals? Alkali Earth? Transition Metals? Lanthanides and Actinides? Non-metal? Metalloid? Noble Gas?
 - What is the density of your superhero?
 - Is he/she malleable, ductile or brittle?
 - Is he/she a conductor of heat and electricity?
 - What's your superhero's state of matter at room temperature (20 degrees Celsius)?
 - What does he/she commonly combine with and/or what does he/she react with?
 - Is it highly reactive or nonreactive?

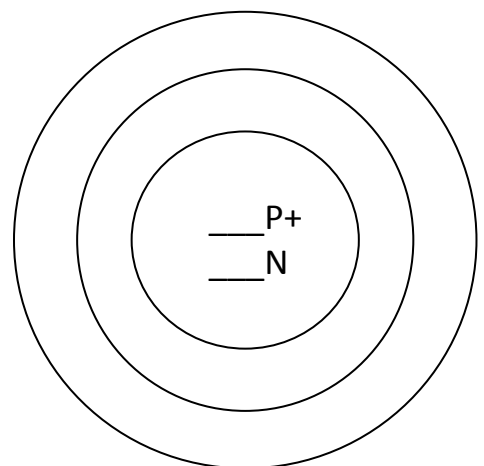
Story Requirements continued...

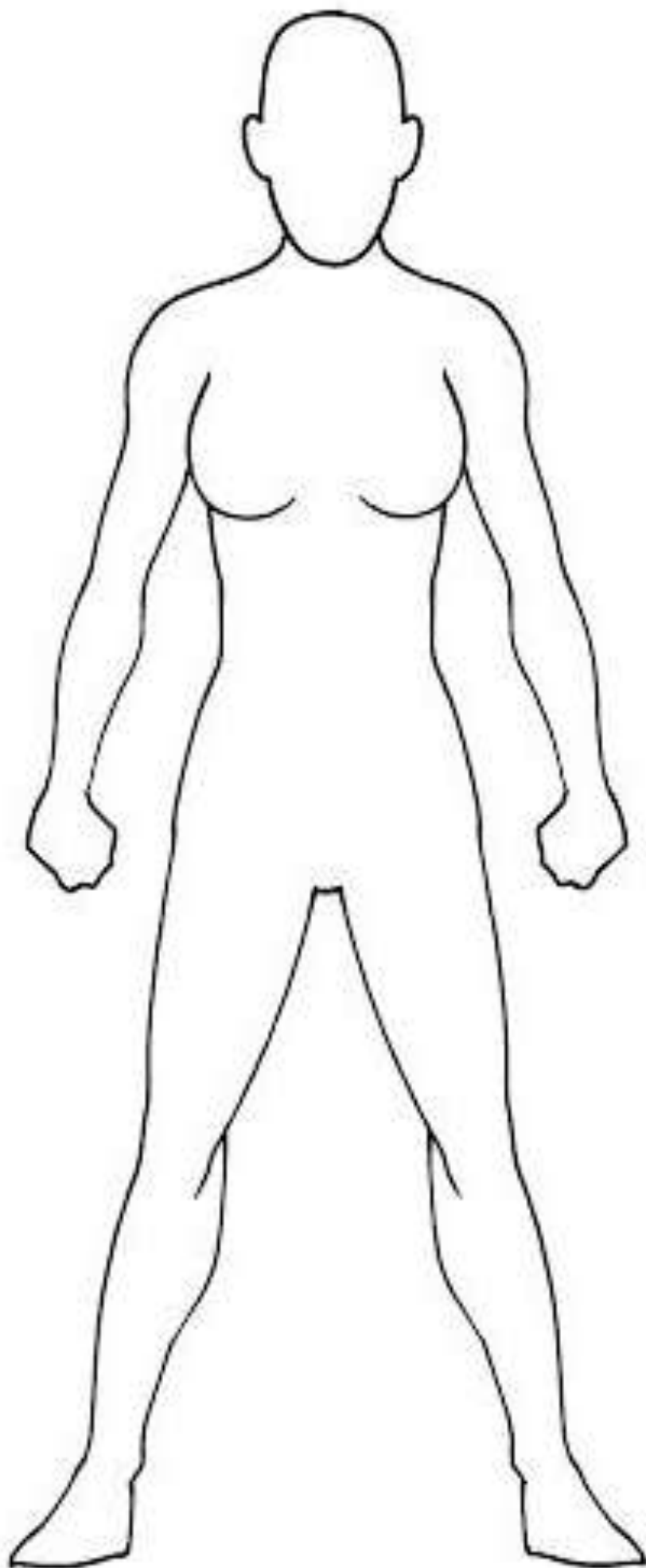
- The story should include the **5 characteristics/properties** of the element (at least 2 must be chemical properties)
- Underline each property in your story
 - Examples of Properties:
 - If your element has a high melting point, you might say that your super hero can move through fire to save others.
 - If your element is a gas, you might say that your superhero can sneak through a crack into a room.
 - If your element explosively reacts with water, you might say that your super hero uses water to create explosions to stop his/her enemies.
- PROPER FORMAT -
 - NEATLY written or typed and proofread.

ELEMENT SYMBOL



5 FACTS:

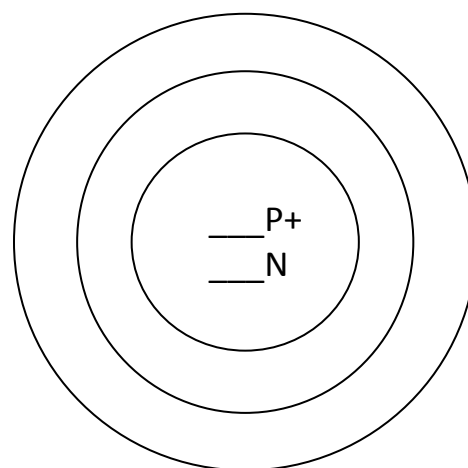




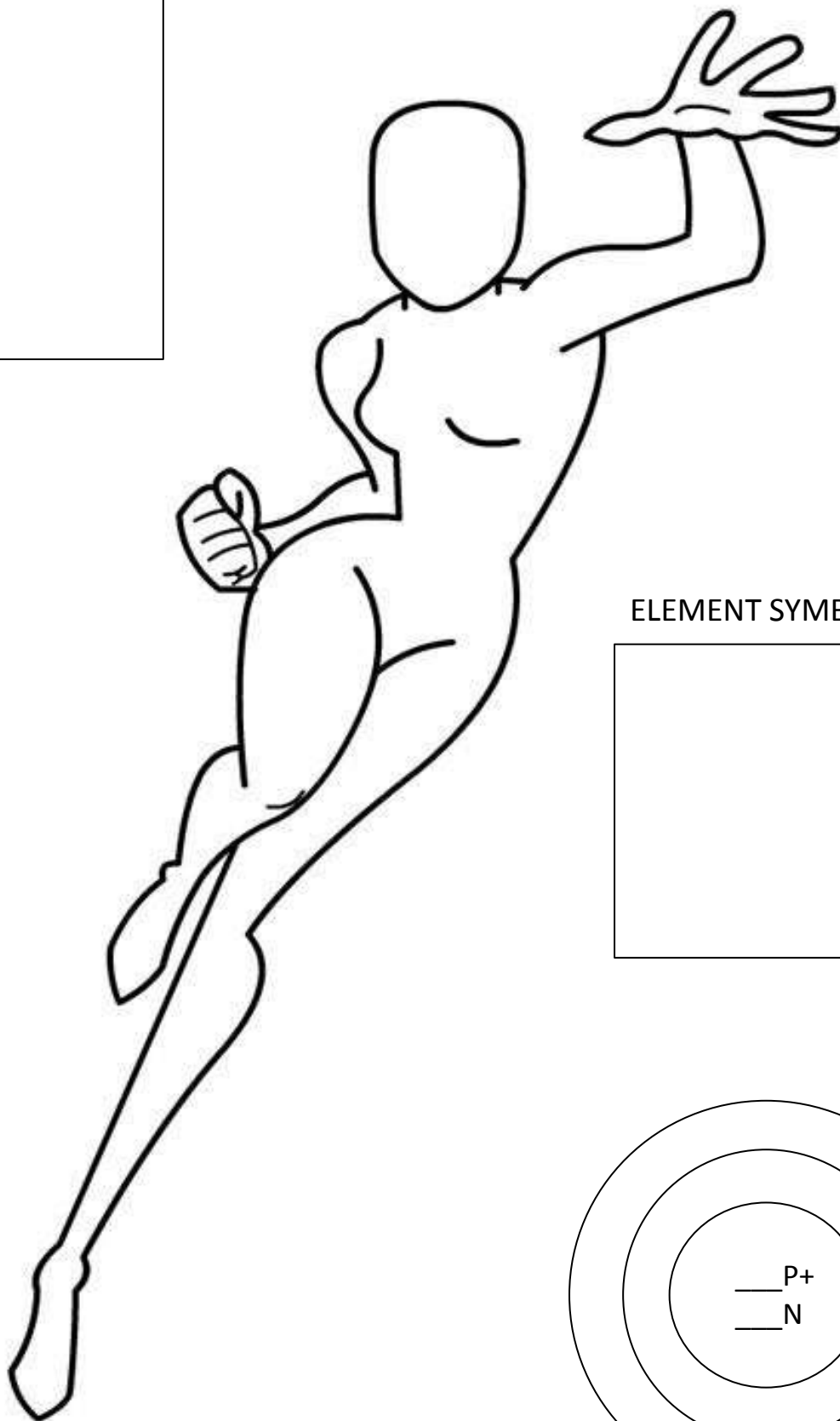
ELEMENT SYMBOL

A large, empty rectangular box intended for writing the element symbol.

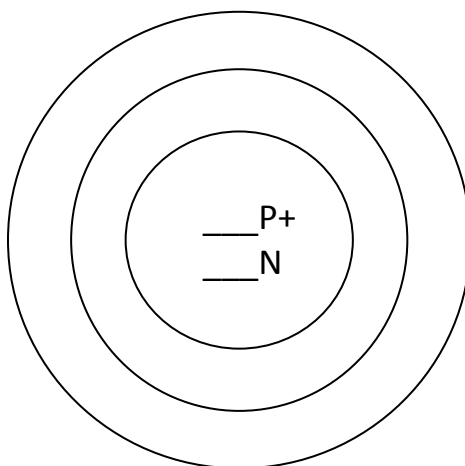
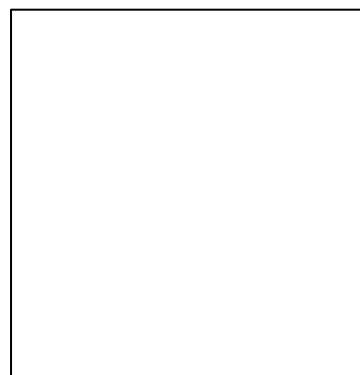
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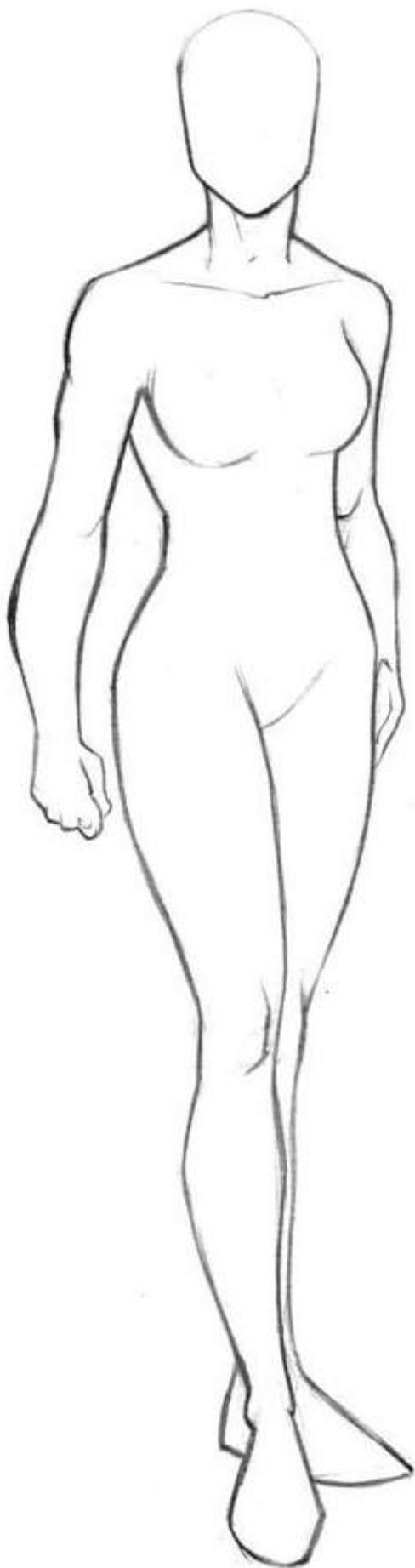


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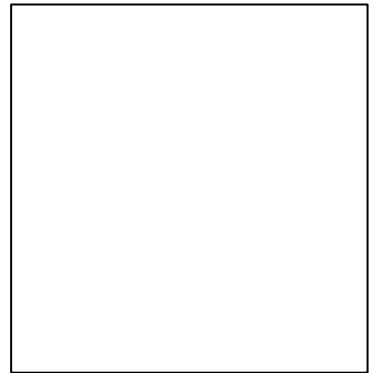


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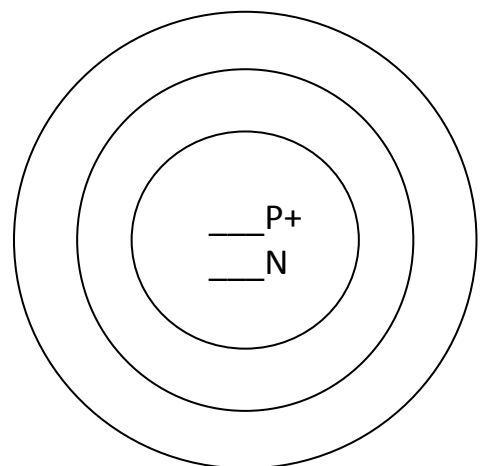


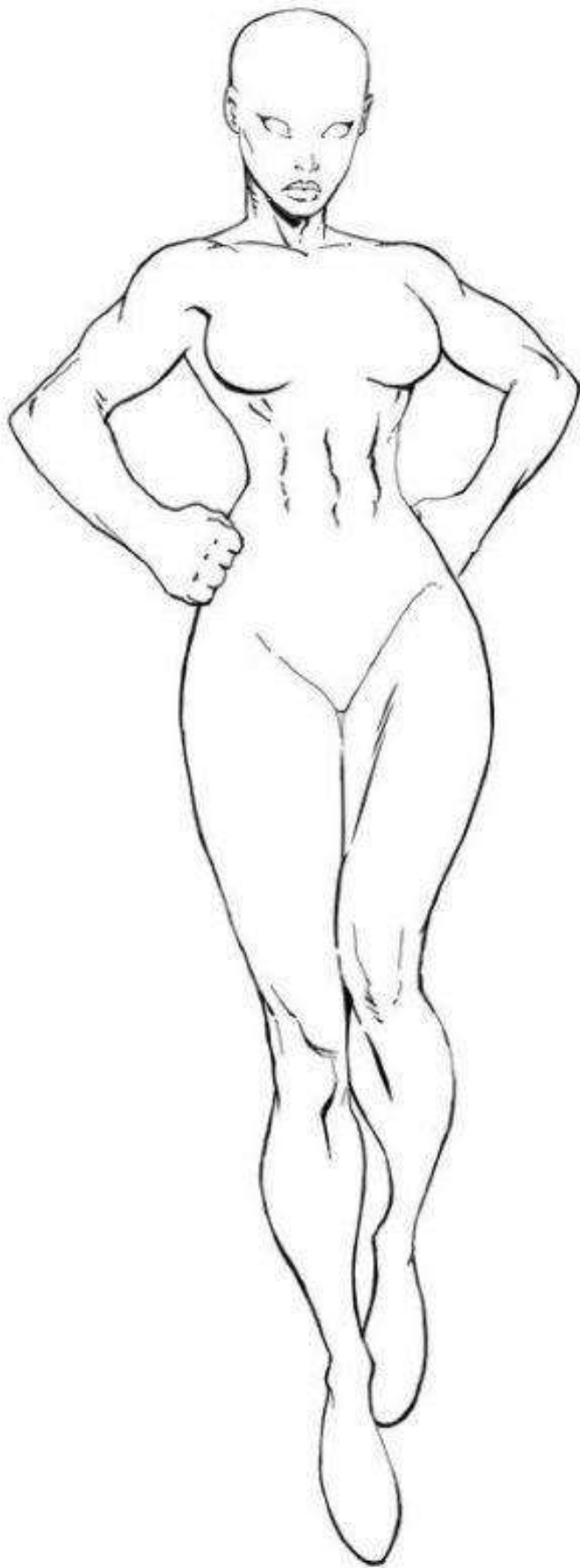


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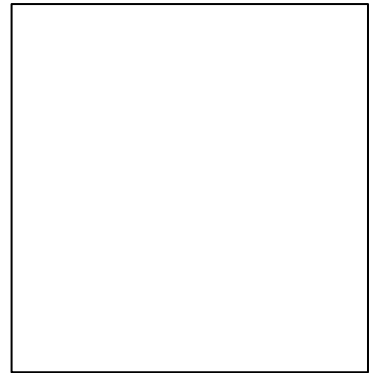


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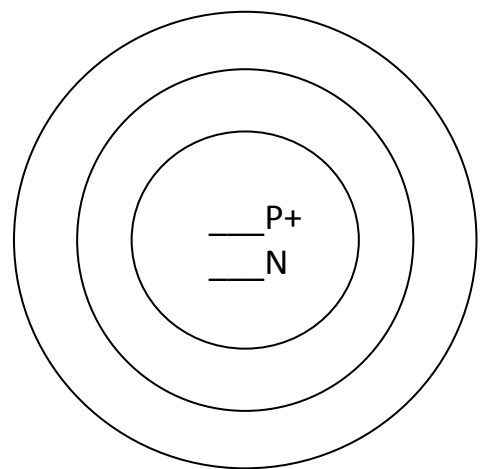


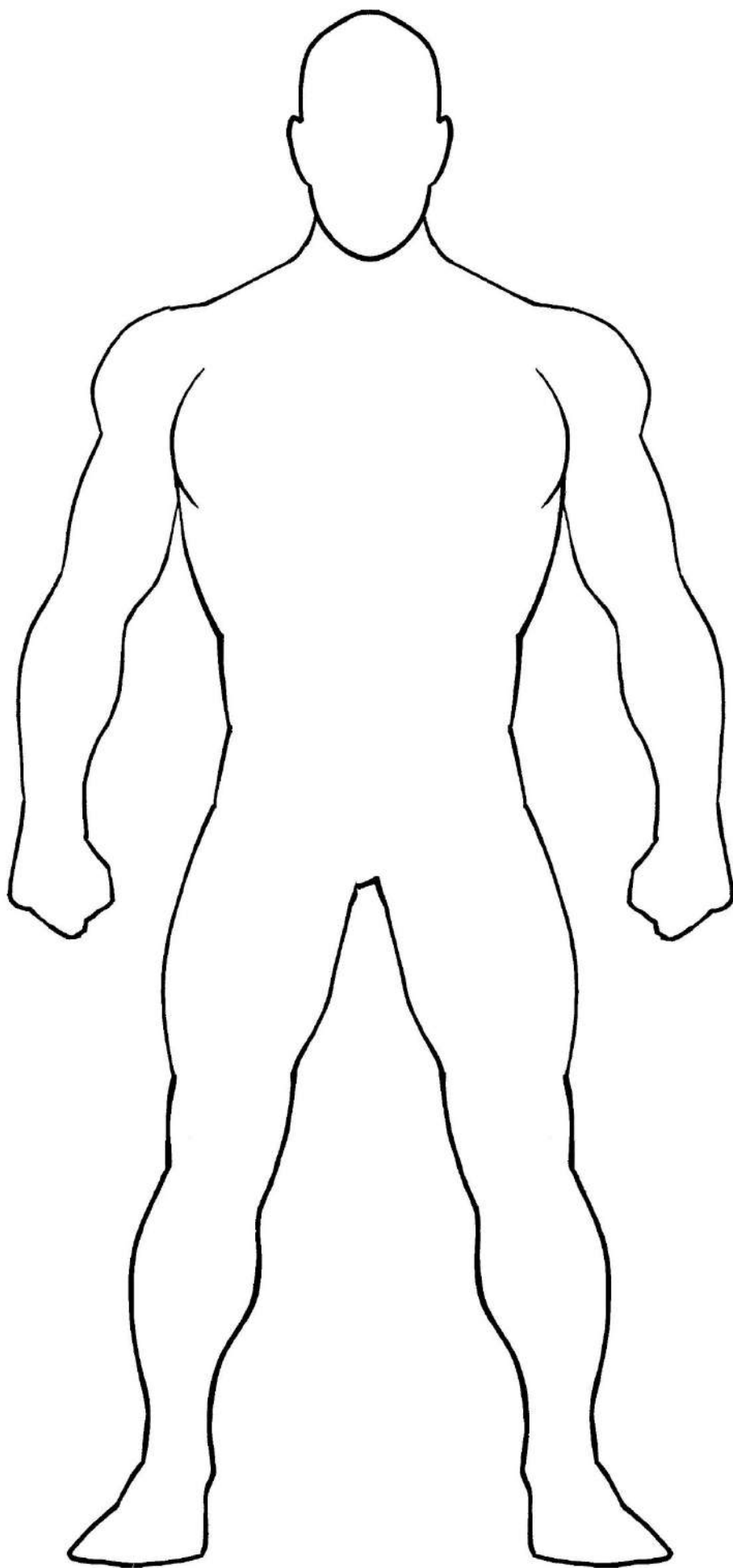


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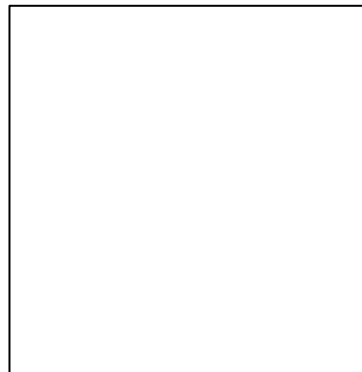


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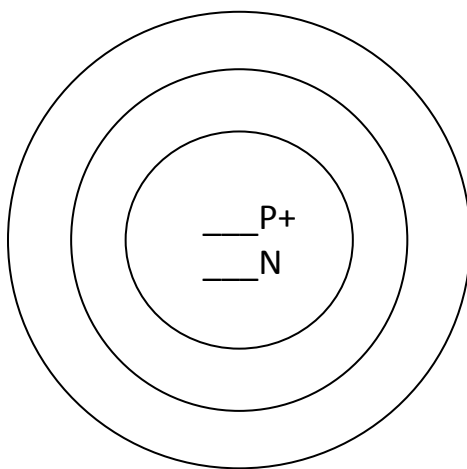




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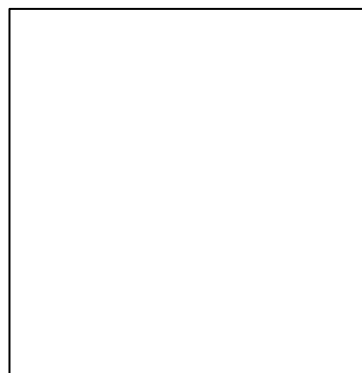


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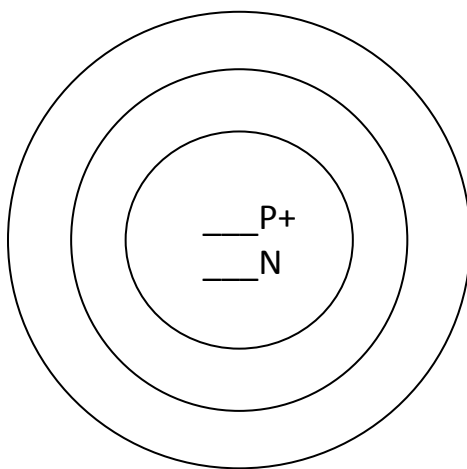




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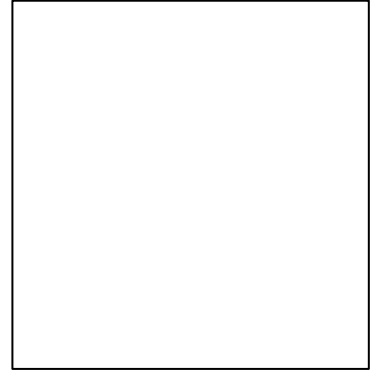


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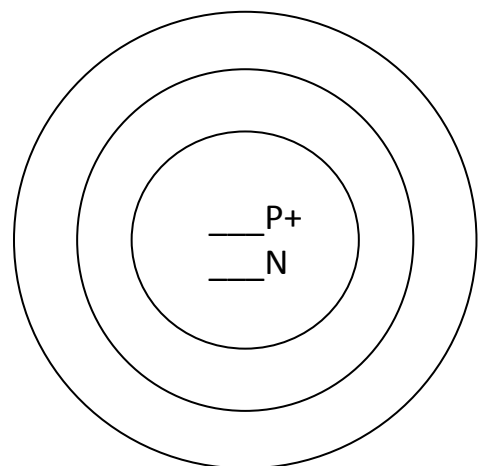




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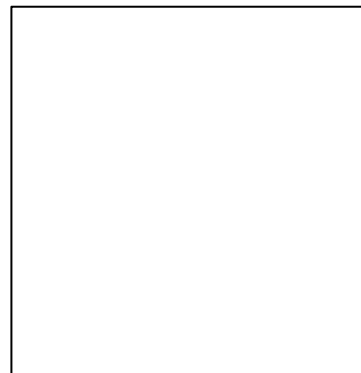


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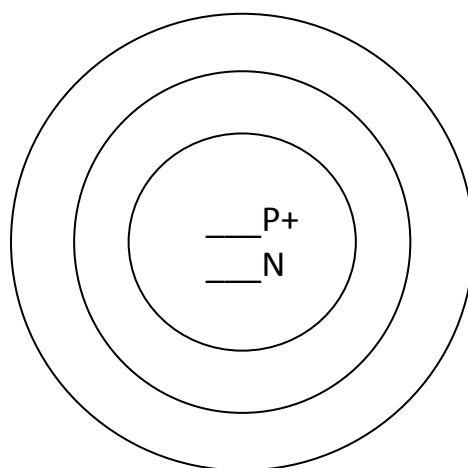




ELEMENT SYMBOL



5 FACTS:



Design Per 2
Santos

Hela

ELEMENT SYMBOL

55

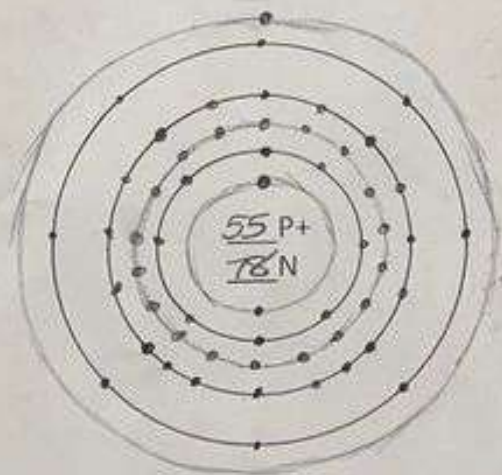
Cs

Cesium

132.91

5 FACTS:

- > Her powers are superhuman strength, speed, stamina, agility, reflexes and durability
- > Hela's weakness is her cloak
- > Her full name is Hela Odinsdottir
- > Hela was born on July 21, 718 BC
- > Hela has the ability to travel through the astral plane.



RADAR

ELEMENT SYMBOL

86

Rn

Radon

222.018

5 FACTS:

Radon is an odorless and invisible radioactive gas naturally from rocks, soil, and water.

