

Atomic Attire Research -- Project Description Handout

As a highly intelligent individual who appreciates a challenge, your assignment is to create a lab apron or coat for the _____ Research Lab featuring an element from the Periodic Table. _____, the director of your lab, is very specific as to what needs to be on the atomic attire. All eyes are on you. If you are to succeed in the science world, you must make this atomic attire spectacular. Use the following guidelines and remember you will have to research to successfully reach your goal.

The following should be included on your atomic attire.

Please be sure all lettering and drawings are neat and clearly visible while it is being modeled!

1. ELEMENT NAME: _____.
2. A Periodic Table Square that includes the atomic number, atomic mass, and symbol
3. Natural STATE. (solid, liquid, gas)
4. Physical and Chemical Properties –illustrate with colorful drawings.
5. Naturally occurring or man-made? Where can it be found?
6. Common uses for this element - illustrate
7. Year discovered and by whom (if known)
8. Other interesting facts you found about your element
9. A model with key depicting protons, neutrons, and electrons.

ATTIRE APPEARANCE

After researching and gathering information, it is a good idea to do a mock-up sketch of your attire on paper. Gather all your materials and start designing.

Use permanent markers or fabric paint on your apron or lab coat. You may use embellishments such as buttons, beads, sequins, etc. as long as they are permanently attached and are washable.

Good luck, be creative, and make all of us at _____ Research Lab proud!

NARRATION

You will also need a typed (double-space, font size 14) description narrating the research, highlights, and creativity of your attire. The narrative (see sample) will be read by you, while your partner models your attire on the Atomic Runway! (Goggles are recommended, but not required, for runway models.)

My child _____ has made me aware of the Atomic Attire Project that has been assigned in Science Class. The completed project (attire and narration) is due _____.

Parent Signature required

Students may use their own apron, coat, or white shirt or purchase one from the school (see order form).

Sample narrative:

My partner is modeling the element Hodgesium. This soft, green solid is a man-made radioactive element and was created in the _____ Science Lab in 2008 by Pre-AP Science students. Hodgesium is toxic and burns brilliantly as you can see by the colorful flame on the lower right corner of her apron. The element's name is derived from the Geek words Hodges + science which translates to "nerds hang here" due to the exceptionally high number of neutrons in the nucleus.

The Periodic Table square in the left center of the apron shows the symbol for Hodgesium to be an upper case H lower case dg.

Uses for Hodgesium are pictured on the apron and include:

- brain research
- seasoning cafeteria food
- flame throwers
- radioactive slime

The Model prominently displayed on the front of the apron shows the 121 pink protons and 308 blue neutrons in the nucleus. There are 121 yellow electrons orbiting around the nucleus. Hodgesium has an Atomic Number of 121 and an Atomic Mass of 409. This element is highly unstable and should only be used for experimentation by trained scientists.