Meet the Elements Project

This project is worth 100 points and requires 3 parts to be completed:

- a decorated element box – worth 25 points (due ____________)
- an element brainstorming sheet – worth 20 points (due ____________)
- an element fact sheet – worth 50 points (due _________________)

My element is __________________________.

Parent/Guardian Signature ______________________________(5 pts)

PART 1: Element Box

Your mission is to research an assigned element from the periodic table and decorate a medium/large cereal box for that element. This element box you decorate will be used as a giant display for the entire school to see. Your display must be eye-catching, neatly done, and informative.

Requirements for Box:

- Must be done neatly
- Must incorporate 8-10 pictures or 3D objects (with captions) to signify practical uses/important aspects of the element
- The atomic number should be large and easily distinguishable in the upper right corner of the box.
- The element symbol should be large, easily distinguishable, black, and in the upper left corner of the box.
- Extra Credit Points will also be given for creativity, style, and effort!
Notes:
- Name and Class Hour should be on BACK of the cereal box.
- Attach pictures and 3D objects NEATLY - using glue stick or double stick tape
PART 2: Meet The Elements – Fact Brainstorming sheet – 20 points

1. My element’s atomic number is _______________________________.

2. A neutral atom of this element has _______ protons, _______ electrons, and _______ neutrons.

3. An atom of this element has __________ shells and _______ valence electrons.

4. What was your element named after?

   __________________________________________________________________________________________

   __________________________________________________________________________________________

   __________________________________________________________________________________________

5. When was your element discovered?

   __________________________________________________________________________________________

   __________________________________________________________________________________________

   __________________________________________________________________________________________

6. Who discovered the element?

   __________________________________________________________________________________________

   __________________________________________________________________________________________

   __________________________________________________________________________________________

7. Where was your element discovered?

   __________________________________________________________________________________________

   __________________________________________________________________________________________

   __________________________________________________________________________________________

8. Where can it be found?

   __________________________________________________________________________________________

   __________________________________________________________________________________________

   __________________________________________________________________________________________

   __________________________________________________________________________________________

9. Does the human body use it?

   __________________________________________________________________________________________

   __________________________________________________________________________________________
10. What are some of its main uses? Do we experience this element in everyday life? How?

________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________

11. Is it poisonous / hazardous?

________________________________________________________________________________________
________________________________________________________________________________________

12. In what compounds or forms is it commonly found?

________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________

13. How abundant is it?

________________________________________________________________________________________
________________________________________________________________________________________

14. What group (family/ column) is it in on the Periodic Table?

________________________________________________________________________________________

15. What are some of its properties? (physical and chemical)

________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
16. What state of matter is it commonly found in?
______________________________________________________________

17. Find at LEAST 3 interesting facts about this element?
______________________________________________________________
______________________________________________________________
______________________________________________________________
______________________________________________________________
______________________________________________________________

18. Include a drawing of its atomic structure.
PART 3: Meet the Elements – Fact Sheet

You will create a fact sheet as the “final draft” of your brainstorming sheet. For this you will need to follow these guidelines:

Requirements for Facts Sheet:
- Sheet must include the questions asked, retyped.
- After each question should be the facts, or answers to the attached questions, in complete sentences.
- Formatting: 12 pt Times New Roman, 1 inch margins all around
- Spacing: double between facts, single within a fact.
- Citations: You must include a Works Cited page including the sources used for your facts. You must use AT LEAST two sources (ie, website, book, etc.).

1. What is the atomic number? .................................................................1 point
2. How many protons, electrons, and neutrons does an average atom have? .................................................................3 points
3. How many shells and valence electrons does an atom have? ..................................................................................2 points
4. What was it named after? .................................................................................2 points
5. Where was it discovered? .................................................................................2 points
6. Who discovered it? ...............................................................................2 points
7. When was it discovered? .................................................................................1 point
8. Where can it be found? ...............................................................................3 points
9. Does the human body use it? ........................................................................2 points
10. What are some of its main uses? Do we experience this element in everyday life? How? ...........................................5 points
11. Is it poisonous / hazardous? ........................................................................2 points
12. In what compounds or forms is it commonly found? .........................5 points
13. How abundant is it? ...............................................................................4 points
14. In which group (column/family) can it be found on the periodic table? .............................................................................1 point
15. What are some of its properties? (physical and chemical) ....5 points
16. As what state of matter is it commonly found? ...................................1 point
17. What are at least 3 interesting facts about this element? .........................5 points
18. Include a drawing of its atomic structure .................................................4 points
MEET THE ELEMENTS GRADE SHEET

Name ___________________________ Element _______________________  

Part 1 - Element Box /Parent Signature  
- Remember: neatness, 8-10 pictures with captions, creativity, style, and effort!  
  _________ / 25 points  
- Parent/Guardian Signature  
  _________ / 5 points  

Part 2 - Brainstorming Sheet  
- Complete answers to questions along with citations for where answers were derived from  
  _________ / 20 points  

Part 3 - Fact Sheet - REMEMBER CITATIONS  
1. What is the atomic number? ________/1 point  
2. How many protons, electrons, and neutrons does an average atom have? ________/3 points  
3. How many shells and valence electrons does an atom have? ________/2 points  
4. What was it named after? ________/2 points  
5. Where was it discovered? ________/2 points  
6. Who discovered it? ________/2 points  
7. When was it discovered? ________/1 point  
8. Where can it be found? ________/3 points  
9. Does the human body use it? ________/2 points  
10. What are some of its main uses? Do we experience this element in everyday life? How? ________/5 points  
11. Is it poisonous / hazardous? ________/2 points  
12. In what compounds or forms is it commonly found? ________/5 points  
13. How abundant is it? ________/4 points  
14. In which group (column/family) can it be found on the periodic table? ________/1 point  
15. What are some of its properties? (physical and chemical) ________/5 points  
16. As what state of matter is it commonly found? ________/1 point  
17. What are at least 3 interesting facts about this element? ________/5 points  
18. Include a drawing of its atomic structure ________/4 points  

Total ________/ 50 points  

NOTE: Points will be deducted for late work, improper formatting, and for lack of citations. Bonus points can be earned for exceptional work.  

Total with deductions and bonus points ________/ 100 points