**Exploring the Elements Project Rubric Topic:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Names:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Elements:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Competencies:** Demonstrate a sustained intellectual curiosity about a scientific topic; Seek and analyze patterns, trends and connections in data; Use knowledge of scientific concepts to draw conclusions; Communicate scientific ideas and information for an audience |
| **CATEGORY** | **4** | **3** | **2** | **1** |
| **Snap Shot: Newspaper or lift the flaps interactive booklet****Design, illustrations and presentation****/8** | * Superb job of teaching the reader about your group and elements
* All required parts included.
* Pictures & illustrations chosen are labelled, appropriate, neatly presented throughout booklet & coloured
* Project shows an exceptional degree of originality and/or creativity in its creation.
* All print is either typed or neatly fine lined.
* Commendable Effort!
 | * Good job of teaching the reader about your group and elements
* All required parts included
* Pictures are appropriate, labelled and neatly coloured.
* Project shows some originality and/or creativity in its creation
* All print is either typed or neatly fine lined
* Good Effort
 | * Fair job of teaching the reader about your group. More details required.
* Most required parts included
* The booklet has a few pictures, are sometimes appropriate and are not always labelled
* So So-lacking in engagement
* Print could be neater or formatted better
* More organization and effort needed.
 | * Poor job of teaching the reader about your group.
* More detail required
* The booklet is missing some or all required pictures
* Several requirements not met
* Boring
* Layout of information is disorganized, messy and/or difficult to read.
* Poor Effort and lacks organization
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| **Group Information*** **Global /Ecological Significance**
* **Hazards**
* **Technology**

 **/4** | * Excellent introduction to group and all its element members
* **Significance of Group discussed using relevant examples**
 | * Good introduction to group and all its element members**.**
* **Significance of Group discussed with a few examples**
 | * A brief introduction to the group and its elements
* Minimal discussion of importance of group.
 | * Poor introduction to group and its elements
* Importance of group not discussed.
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| **Element Information** |
| **Uses and where it is found in nature and relative abundance****/4** | * At least four important uses of each element
* Where the elements are found in nature is stated **and** relative abundance provided.
 | * Three uses of each element
* Where the elements are found in nature is stated **and** relative abundance provided
 | * Only two uses are given for each element
* Where the elements are found in nature **or** relative abundance is not stated or unclear.
 | * Less than two uses are given and/or where the elements are found in nature and relative abundance were not addressed.
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| **Chemical and Physical Properties****For Each element*** Reactivity with other specific elements,
* Appearance
* State at room temperature.

**/4** | **Eight or more** important physical and chemical properties are discussed  | **At least six** important properties where listed including both chemical and physical properties.  | **At least four** chemical and physical properties were discussed | **Three or less properties** were listed. |
| **Comparison of Elements*** **Classification and location on periodic table**
* **Atomic structure with ion charge**
* **Bohr Diagrams**
* **Both similarities and differences**

 **/4** | Elements are thoroughly compared to each other  | Elements are compared  | Elements are briefly compared  | Comparison of the elements is missing many details or information regarding their position on the periodic table. |
| **Cool Facts and Significance of Elements to humans, life, reactions with other elements, the universe****/4** | More than four interesting and significant facts about each element  | Four significant facts about the element are included.  | Three facts about each element are included.  | Two facts about each element are included. |
| **COMMENTS:** |
| **Project Components** |
| **CATEGORY** | **Mastery** | **Competent** | **Developing** | **Beginning** |
| **Creative Pieces****(news articles, poems, cartoon stories, songs) /8** | A very creative and engaging piece of more than 15 lines which shares many facts and qualities related to your elements/group  | A good piece of at least ten lines that shares several facts and qualities related to your elements/group | A satisfactory piece of at least eight lines that shares a few facts and qualities related to your elements/group | A poor attempt has been made to write a creative piece. A few qualities or facts are included. |
| **Interactive Page/4** | A fun and relevant activity is included that not only reviews important content addressed in project but is also engaging. Key included | A relevant activity is included that reviews important content covered in project. Key included. | A simple activity is included. Key included. | An attempt to include an activity was made but insignificant material is reviewed or page is confusing and inaccurate. No Key. |
| **Professionalism** **/4** | All content and graphics are accurate and there are no obvious spelling or grammatical errors.  | All content and graphics are accurate with minor spelling or grammatical errors.  | There are many spelling or grammatical errors but most content and graphics are accurate.  | There are several errors in the content and graphics used. More proofreading and organization is needed.  |
| **Works cited****/4** | * At least five sources which have been properly cited and included at the end of the project.
* URL is included
* Site usage is written in annotations
 | * At least four sources have been properly cited and included in the booklet
* URL is included
 | * At least three sources have been cited (not necessarily properly)
 | * Works cited are not properly cited or not included.
 |
| **Team Collaboration/2** | We worked extremely well together and everybody did their share of the project. | We worked well together and there were only some minor problems. Most work was shared evenly. | We had some difficulties working together. Some did more work than others or we were often off task. | We should not have worked together. The project work was done mostly by myself or my partners |
| **Total** | **Research: /5 Draft: /5 Project: /50 = /60 = % X Multiplier = %**  |
| **COMMENTS:** |