**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 |
| **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. |
| **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. |
| **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:** | | | | |