***Scientist CUBE***

**Your task:** Using the *Bio-Cube* by **ReadWriteThink**, you will create a cube for a person involved in a significant science discovery or development.

* Possible people—circle your scientists *so you don’t forget!!*

|  |  |  |
| --- | --- | --- |
| Rosalind Franklin | Rita Levi-Montalcini | Benjamin Banneker |
| Percy Lavon Julian | Ernest Everett Just | Marie Sklodowska Curie |
| Ellen Ochoa | Patricia Bath | Daniel Hale Williams |
| Chien-Shiung Wu | Carlos Juan Finlay | Rachel Carson |
| Maria Goeppert-Mayer | C. V. Raman  | Ada E. Yonath |
| Mario Molina | Mae Jemison | Maria Margarethe Kirch |
| Ida Freund | Aprille Ericsson | Luis Federico Leloir |
| Peter Higgs | Aglaonice | Hypatia of Alexandria |
| Melissa Franklin | Theodore Lyman | Gustav Kirchoff |

**The guidelines:**

1. You will be assigned to research one scientist.
2. Use the planning sheet to create your cube. Before submitting your cube, check over your planning sheet with your instructor.
3. Log on to: [**http://www.readwritethink.org/files/resources/interactives/cube\_creator/**](http://www.readwritethink.org/files/resources/interactives/cube_creator/)We will use the Create-your-own-cube option.
4. On ***Cube side #1***, you will title this side with your scientist’s *full name (time period, place)* and attach a colored picture/image of the theorist you have been assigned.
5. The rests of the sides should include the following information:
	1. ***Cube side #2***: Title of this face is *Personal Background* which includes place of birth, date of birth, and one other personal fact of your choice.
	2. ***Cube side #3***: Title of this face will be the *Significance*. This face will include the description of the work or discoveries of your scientist. You may include a picture.
	3. ***Cube side #4***: Title of this face will be *Obstacles* and will include a description of the obstacles or challenges your scientists faced in life/work.
	4. ***Cube side #5*** : Title of this face will be *Interesting facts* and will include two interesting science and two interesting non-science facts about the scientist.
	5. ***Cube side # 6*** is titled with *Your Name* and *Class period*. Reflect on your favorite part of your research.
6. Keep a list of all sources used during your research. You must have at least ONE credible source.
7. Your final Cube must be professionally created using the web software from **ReadWriteThink**. The final product should be proofread, neatly assembled, colorful, organized and sturdy enough to be handled. It must be submitted virtually to your instructor to be approved before being printed.

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Inventor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Inventor Cube Rubric**

A score of a 0 on the rubric below indicates that item does not comply with requirements listed and/or was not submitted

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **4** | **3** | **2** | **1** | **0** |
| ***Research (10)*** | 1. Accurate information taken from minimum of 1 source.
2. List is kept for all sources used.
3. Information used pertains to topic of scientist
4. Use of class time for research was used wisely.
 | Complies with all but 1 of the requirements listed | Complies with all but 2 of the requirements listed. | Complies with all but 3 of the requirements listed. |  |
| ***Content : Cube Face 2 (8)*** | Facts were accurate for all items required on cube face 2. | Facts were accurate for almost all items required on cube face 2 | Facts were accurate for most (~75%) of items required on cube face 2. | Facts were often inaccurate or missing for items required for cube faces 2. |  |
| ***Content : Cube Face 3 (8)*** | Facts were accurate for all items required on cube face 3. | Facts were accurate for almost all items required on cube face 3. | Facts were accurate for most (~75%) of items required on cube face 3. | Facts were often inaccurate or missing for items required for cube faces 3. |  |
| ***Content : Cube Face 4 (8)*** | Facts were accurate for all items required on cube face 4. | Facts were accurate for almost all items required on cube face 4. | Facts were accurate for most (~75%) of items required on cube face 4. | Facts were often inaccurate or missing for items required for cube faces 4. |  |
| ***Content : Cube Face 5 (8)*** | Facts were accurate for all items required on cube face 5. | Facts were accurate for almost all items required on cube face 5. | Facts were accurate for most (~75%) of items required on cube face 5. | Facts were often inaccurate or missing for items required for cube faces 5. |  |
| ***Cube Face 6 (4)*** | 1. Name
2. Period
3. Sources submitted
4. PDF Copy of cube emailed to teacher
 | Complies with all but 1 of the requirements listed | Complies with all but 2 of the requirements listed. | Complies with all but 3 of the requirements listed. |  |
| ***Construction******/Appearance (4)*** | The overall appearance of the cube was 1. Assembled
2. Attractive
3. Colorful
4. Reflection included.
 | Complies with all but 1 of the requirements listed | Complies with all but 2 of the requirements listed. | Complies with all but 3 of the requirements listed. |  |
| ***Mechanics (5)*** | No misspellings, punctuation, or grammatical errors. | Few misspellings and/or mechanical errors. | Some misspellings and/or mechanical errors. | Many mechanical errors |  |

Final Score : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ out of 55.

**Inventor Cube Planning Sheet**

Use this planning sheet to prepare for the online *Create-Your-Own Cube interactive* from ReadWrite and think by filling in the information for each side of the cube. **Because space on the cube is limited, you will need to carefully consider both the Topic as well as the Response/notes.**

**URL for ReadWriteThink’s Create-Your-Own Cube interactive:**

**http://www.readwritethink.org/files/resources/interactives/cube\_creator/**

Since the *Create-Your-Own Cube* software does not have spell check or any other word processing tool, it would be advisable to type up your notes in Microsoft word and then copy and paste the final product into the *Create-Your-Own Cube* software.

Once finished, you will **PRINT** out your cube, **TAPE** your images onto the cube, **ADD COLOR** to your cube, **CUT OUT** the cube, **ASSEMBLE** and **SUBMIT** final product to your teacher. You will **also email a 2-dimensional copy of your cube** directly to your teacher. **To do this, save your cube as a PDF and email it to me as an attachment.**

* Your teacher’s email is perry\_j@shaker.org

|  |  |  |
| --- | --- | --- |
| **Side/Face** | **Topic** | **Response/Notes** |
| 1 | *Name of inventor/Theorist*Colored ImageURL of Image source  |  |
| 2 | *Personal Background*Place & date of birth1 other personal fact of your choice |  |
| 3 | *Significance*Description of workIf Illustration is used/taped here, URL of image source  |  |
| 4 | *Obstacles*Obstacles or challenges |  |
| 5 | *Interesting Facts*2 interesting science facts 2 interesting non-science facts |  |
| 6 | *Your name & class period*Listing of All URL’s used for the creation of this projectReflection of your research  |  |

Planning score: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/ 12pts