Model of the Universe

Based on the three ‘scenes’ we saw in the Journey Through our Indefinitely Large Universe you and your partner (or you on your own) are to create three models of our universe. These models may take whatever form you wish (don’t have to be physical models), be creative! In addition to the model, you must provide information on the scene. The three different scenes are outlined below. At a **MINIMUM** the information listed below must be included, either in the model or mentioned during the explanation of the model.

Scene 1: Our solar system

* The sun
* The planets

Scene 2: Our galaxy

* Stars closest to us (name a few)
* Types of stars
* Life cycle of a star

Scene 3: The Local Group

* Galaxies closest to us (name a few)
* Types of galaxies

You will have 3 class periods to work on this. My suggestion is to spend one day on the research, one day on the preparation of the models, and one day on the final product. Your final product should be in an electronic form (pictures, word document, movie, for example), and uploaded to google classroom. Only one of the partners needs to upload the final product.

If you are looking for a challenge, try to create your model for one, or all of the scenes to scale.

You will be evaluated on the accuracy of your information, as well as the quality of the final product – see rubric on the back.

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** | **5** |
| Solar system model |  | Model somewhat accurately represents the solar system. All or most planets and the sun are present. |  | Model accurately represents the solar system. All planets and the sun are present. |  |
| Galaxy model |  | Model somewhat accurately represents our galaxy. |  | Model accurately represents our galaxy. |  |
| Local Group model |  | Model somewhat accurately represents the local group. |  | Model accurately represents the local group. |  |
| Solar system facts |  | Some facts are present, accurate, and explained. |  | All facts are present, accurate, and explained in detail. |  |
| Galaxy facts |  | Some facts are present, accurate, and explained. |  | All facts are present, accurate, and explained in detail. |  |
| Local Group facts |  | Some facts are present, accurate, and explained. |  | All facts are present, accurate, and explained in detail. |  |
| Effort |  | Project has been created with minimal effort. |  | Project has been thoughtfully created, with attention to detail throughout. |  |
| Creativity |  | Project is similar to others. |  | Project is highly unique. |  |