**Moon & Seasons Model TEST**

**Using the materials given (and any other materials you wish to add) you (and a partner if desired) will need to design and construct a model that you will use to explain/demonstrate the following:**

1. phases of the moon (in order)

2. moon’s orbital tilt

3. tilt of the earth axis including direction in which it points

4. solar and lunar eclipses (and using the model, explain why we don’t have a solar/lunar eclipse every month)

5. four seasons

6. accurately demonstrate the correct rotation and revolution of the moon and the earth

7. accurately explain what causes the seasons to change – including why it’s colder in the winter and hotter in the summer

8. explain two reasons why your project/model is not really accurate

9. sun, moon and earth are labeled

**Grading Rubric:**

4 = project is clear, accurate, labeled and delivered with knowledge

3 = project is accurate and well-delivered

2 = project is done and mostly accurate

1 = project is done

Name(s) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- |
|  | 4 | 3 | 2 | 1 |
| Phases of the moon |  |  |  |  |
| Moon’s orbital tilt |  |  |  |  |
| Tilt of Earth’s axis |  |  |  |  |
| Solar and Lunar eclipses |  |  |  |  |
| Four seasons |  |  |  |  |
| Rotation and revolution of Earth and Moon |  |  |  |  |
| Explanation of seasons |  |  |  |  |
| Explain why project is NOT accurate (to scale) |  |  |  |  |
| Sun, Moon, and Earth labeled |  |  |  |  |
| Overall project |  |  |  |  |
| Total |  |  |  |  |

Total score \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_