#### [http://www.moleday.org/htdocs/gifs/polo98.gif](http://www.moleday.org/index.htm)Mole Day Projects

#### Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### What is Mole Day?

#### We would like to invite you to celebrate Mole Day with us on October 23, 2018 (this year’s theme is May the MOLE be with you!) Our celebration comes from the concept of the mole, a basic international unit for counting *anything*, like atoms or molecules. A mole is 602,000,000,000,000,000,000,000 of anything, just like 12 is a dozen of anything or a gross is 144 of anything. In scientific notation, that big number, which is called Avogadro's Number (named after the famous physicist Amadeo Avogadro), is written 6.02 x 1023. Since October 23 is often written 10/23, we celebrate Mole Day from 6:02 a.m. to 6:02 p.m. on October 23rd. On May 15, 1991 the National Mole Day Foundation was born (yes, it really exists…they even have a website! [www.moleday.org](http://www.moleday.org)).

#### We will celebrate Mole Day in chemistry class. We will be listening to mole music, eating mole food and drinking mole drinks (if you elect to bring things in). Your mole day project will count for an extra credit grade and is due Tuesday October 23, 2018. Projects can be brought in beginning Monday October 15, 2018.

#### Examples of previous mole day projects are listed below:

#### Sewing a mole mascot (we have a pattern) or soft toy

#### Write and perform a skit, song or poem related to Mole Day

#### Make Mole Day buttons for your classmates and/or peers

#### Make a Mole-opoly or mole-related game

#### Make a Mole Day Flag or banner for the room

#### Make a Mole-bile

#### Make a poster about a famous chemist or Noble Prize in Chemistry winner

#### Make and wear a Mole Day t-shirt

#### Carve a Mole Day pumpkin (Fake pumpkins only, please!)

#### Dress as Avogadro

#### Make a mole piñata or a stuffed mole

#### Bake pretzels in the form of 6.02 x 1023

#### Any other ideas are welcome, but must be approved by your instructor

Complete the questions below and be sure you project represents that you are an expert on the Mole!

1. Describe your project

2. How does your project related to Moles?

**Mole Day Project Rubric**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Beginning 0-6** | **Accomplished 7-8** | **Expert 9-10** | **Score** |
| Planning | Student has not selected a project | Student selected a project but did not get a parent signature | Student selected a project and received a parent signature |  |
| Material Gathering | Student did not use material permitted for the assignment | Student used materials permitted for the assignment but did not have them securely put together | Student did a good job using materials permitted for the assignment |  |
| Questions | Student did not complete the questions | Student completed some of the questions | Student completed all questions |  |
|  | **Beginning 0-6** | **Accomplished 7-8** | **Expert 9-10** |  |
| Mole/ Chemistry Representation | Either not present or not clearly represented | Present, but not labeled and titled | Clearly labeled and titled, and mole clearly represented |  |
| Neatness, layout, organization, attractiveness | Student did not work hard to prepare a clearly organized project | N/A | Student has clearly worked hard to convey his/her understanding of the mole concept or contribution to the area of chemistry |  |
| **Total Points/Grade** |  |  |  |  |

Parent Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_