# MOLE DAY IS COMING!

**We must celebrate!**

Mole Day (October 23rd) is upon us! On that day, chemistry students around the world celebrate the mole from 6:02 am to 6:02 pm. Mole Day is 10-23 because of Avogadro’s Number, 6.022 x **1023** (named in honor of Italian scientist Amedeo Avogadro), which represents the number of particles contained in **one mole** of any substance. You have been introduced to the mole concept recently and we will learn more about the mole in the future! On October 23rd, chemistry classes will celebrate in style! We will eat, tell jokes, show off our creative works and earn extra credit! To make this day special, however, we must all pitch in! There is a lot to do to make Mole Day fun for everyone!

Each student should sign up for **TWO** mole day events. There are limits on some of the special projects, so those will be on a first-come, first-served basis. In addition, every student will make ***one*** “Happy Mole Day” card in class (*mandatory*) that will be distributed to the faculty and staff!

***Here are some sample special Mole Day projects:***

1. Make a stuffed mole (pattern available – sewing required!). This is a chance to show your creativity. Your mole should have a name that contains the word “mole” and should be dressed in an outfit that matches the name. Example: “guacaMOLEe” - a chartreuse-colored mole. Examples can be found in class. See page three below for pattern.
2. “How Big Is A Mole?” Poster. This full size poster should illustrate to your classmates just how big a mole really is! It should be colorful, illustrative, descriptive, and informative. Sample topic (make up your own): How long would it take the population of Earth to consume a mole of Skittles if each person consumed 1 bag/day? (Instructions below).
3. Compose a Mole Day song or poem. The song or poem will be performed for the class. Please include hard copy of your poem or song lyrics and a digital recording of your song.
4. Write a one page paper. The paper should be about the history of the “mole” (6.20x10
5. Make a door-size door decoration for another science teacher. You must receive prior written permission from a specific teacher to decorate his or her door. Only 2 students per teacher. The door decoration must specifically highlight the mole concept. Additional science information is permitted. Inside of doors may be decorated.
6. Create your own mole themed game (you may work in a group)

Bottom line: (see below for more info on card, sewing a mole, and mole poster)

* Mole Day card (**5 pts each**) – Mandatory - prepare in class on ***Oct 22nd*** & ***Oct 23rd***
* Mole Day project (**15 pts**) – due on ***October 23rd*** (MOLE DAY!)
* ***Mole Day Extra Credit:*** Bring a wrapped bag of (Halloween) candy or mole themed food item to distribute during class **2 XC pts**.

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**How Big Is A Mole? (15 points)**

**Poster Project**

* The poster must be a minimum size of 24 x 17 (1 points)
* The title of the poster must be in the form of a question (1 points)
* The problem should be solved using dimensional analysis (1 points)
	+ The problem should be solved correctly (3 points)
* All units should be shown and correct (1 points)
* All work should be shown (1 points)
* You should include art work related to your question (2 points)
	+ 3D artwork earns *2 bonus* points
* You should include a list of resources on the front of the poster in MLA format (2 points)
* Your name, date turned in and class period should be on the front of the poster (1 point)
* The poster should be neat and organized (2 points)

*MOLE DAY CARDS (5 pts ea)*

Mole Day (October 23rd) is here! On this day, chemistry students around the world celebrate the mole from 6:02 am to 6:02 pm. Mole Day is October 23rd because of Avogadro’s Number, 6.02 x 1023 (named in honor of Italian scientist Amedeo Avogadro), which represents the number of particles contained in one mole of any substance. Today in class we will design our “Happy Mole Day” cards that will be distributed to the faculty, staff and administration of NBPS. Your cards should inform their recipients 1) why we celebrate mole day and 2) how many particles are contained in one mole. The card should 3) clearly read, “Happy Mole Day from Mrs. Fergusson’s Class” and you should 4) sign your name, and period. There are card supplies available in class today.

***Links of Interest***

Mole Day Home Page http://www.moleday.org/

Mole Day history (why we celebrate Mole Day) http://www.moleday.org/htdocs/mainhist.html

Ask Monty Mole (Mole FAQs) http://www.moleday.org/htdocs/monty.html

Great Mole Day Project Ideas http://www.moleday.org/htdocs/projects.html (Bake Mole-asses Cookies!)