



This year's theme... "May the MOLES be with you!"

What is *Mole Day*?

moleday.org

Celebrated annually on October 23rd from 6:02 a.m. to 6:02 p.m., *Mole Day* commemorates Avogadro's Number (6.02×10^{23}), which is a basic measuring unit in chemistry. *Mole Day* was created as a way to foster interest in chemistry. Schools throughout the United States and around the world celebrate *Mole Day* with various activities related to chemistry and/or moles.

For a given molecule, one mole is a mass (in grams) whose number is equal to the atomic mass of the molecule. For example, the water molecule has an atomic mass of 18, therefore one mole of water weighs 18 grams. An atom of neon has an atomic mass of 20, therefore one mole of neon weighs 20 grams. In general, one mole of any substance contains Avogadro's Number of molecules or atoms of that substance. This relationship was first discovered by Amedeo Avogadro (1776-1858) and he received credit for this after his death.

To celebrate Mole Day, students will bring in their projects, as well as a "mole treat" for the class. (such as "mole" cookies, "Avogadro" dip, taco-mole dip....) During the class period we will do fun activities and demonstrations. The student in each class with the best project will be crowned Mole King or Queen and will receive 5 MOLE DOLLARS. Other amazing projects will also be rewarded with Mole Bucks. The class with the MOST/BEST Mole Day projects will earn a P.A.R.P.E.! If you are asking yourself, "Why should I care about Mole Day?" the answer is simple: YOU are now a CHEMIST, and chemists celebrate this wonderMOLE day!

WE WILL CELEBRATE MOLE DAY IN CLASS ON THURSDAY, 10/22/15 (B-DAY) & FRIDAY, 10/23/15 (A-DAY)! You must have your project completed Oct. 19/20 by the beginning of class! You may also drop off your snack in the morning to my class so that you don't have to carry it around all day.

Some Mole Day Project Ideas:

- 1) Sew an original mole (I have a pattern you may use). ☺
Dress him or her in a style that is a mole pun and name him or her.
(i.e. *Moledona*, *Super Mole-io Bros.*, *Molemates - Mole Bride & Groom*).
- 2) Design, make and wear a mole T-shirt.
- 3) Create a mole day poem, fable, story or cartoon.
- 4) Create a mole day poster or decorate a "Moletin" board.
- 5) Write a mole song & record it OR perform it for the class.
- 6) Make a mole piñata.
- 7) Make a mole movie.
- 8) Write a mole play & perform it!
- 9) Make a mole bag, blanket, pillow, game, etc...
- 10) Dress up in a mole costume.
- 11) Notify your local media about Mole Day festivities (TV, radio, newspaper, etc...)

Mole Day Information & Bonus Project Rubric

There must be a **MINIMUM** of 50% participation of you and your classmates' projects in order for us to celebrate MOLE DAY. The more you and your classmates get into the Mole Day spirit, the more fun experiments and demonstrations I will prepare (one experiment is lighting your hand on FIRE)! You may work with another person, but there must be 1 project for each of you! You are NOT required to spend a lot of money on this project, but be creative and invest time in making your project! ☺

Project Rubric:

- 4 MOLE BUCKS** Exceptionally outstanding project: Extremely creative and original presentation; excellent performance and/or neatness; evidence of time investment
- 3 MOLE BUCKS** Outstanding project: Creative and original presentation, performance and/or neatness; evidence of time investment
- 2 MOLE BUCKS** Outstanding project: Creative presentation, but not original; good performance and/or neatness; evidence of time investment
- 1 MOLE BUCK** Good project: Not overly creative or original presentation; ok performance and/or neatness; evidence of time investment

Mole Day Buffet:

In **addition** to your project, please bring mole day food for you and your classmates to enjoy! (Moleasses cookies, Guacamole dip, Mole Day cake, Mole cupcakes, cookies, etc...). I will provide the plates, utensils, napkins, and cups so do not worry about that! Mole Day food creativity will earn you extra mole bucks! ☺



A MOLE of a BREAKFAST! EARN 1 MOLE BUCK!!!!: We will be enjoying Mole Day BREAKFAST this year at Chick-MOLE-A! (Loop 288) on 10/23/15 from 6:02am – 6:32am. Stop by with your parents/friends to eat breakfast and celebrate this chemistry holiday. The approximate cost per person is \$5-7 (depending on what you order) if you want to eat. We hope to see you there!



MOLE DAY IS THE BEST DAY SO LET'S DO IT **BIG!** ☺

