

Unit 8: Stoichiometry

Reading Assignments

Modern Chemistry (2006), Chpt. 3 (sect. 3), Chpt. 7 (sects. 3,4), Chpt. 9

Supplementary Reading

"How blind mole rats find their way home", *Science News* v165 # 7

Homework/Activities

- | | |
|---|------------|
| 9 Activity: How much is a "mole"? | Due: _____ |
| 9 Worksheet - The Mole! (Duhn duhn duhhhhnn) | Due: _____ |
| 9 Worksheet - The Mole 2: Molar Mass! | Due: _____ |
| 9 Sect. Review (Chpt. 3, Sect. 3) (p.87) #5-7 | Due: _____ |
| 9 Chapter Review (Chpt. 3) #17-18, 21-24, 28 | Due: _____ |
| 9 Sect. Review (Chpt. 7, Sect. 3) (p.244) #1-5 | Due: _____ |
| 9 Sect. Review (Chpt. 7, Sect. 4) (p.249) #1-5 | Due: _____ |
| 9 Chapter Review (Chpt. 7) #28-33, 36-40, 42-43 | Due: _____ |
| 9 Sect. Review (Chpt. 9, Sect. 2) (p.311) #1-5 | Due: _____ |
| 9 Sect. Review (Chpt. 9, Sect. 3) (p.318) #1-4 | Due: _____ |
| 9 Chapter Review (Chpt. 9) #5-12, 14-15*,
22-24, 26-31, 36 | Due: _____ |
| 9 Science Article: Mole Rats | Due: _____ |
| 9 TBA: _____ | Due: _____ |

Concepts/Topics

- 9 Avogadro's number: the mole
- 9 Converting moles to particles; particles to moles
- 9 Molar mass; Moles in chemical formulas
- 9 Converting moles to grams; grams to moles (converting grams to particles & vice versa)
- 9 Empirical formulas; molecular formulas; percent composition
- 9 Hydrates
- 9 Limiting reactants; Percent yield

Web Resources

- | | |
|----------------------------|--|
| Mass to mole; mole to mass | science.widener.edu/svb/tutorial/atomsmolescsn7.html |
| Mole to mole conversions | science.widener.edu/svb/tutorial/rxnsmolestomolescsn7.html |
| Mass to mass stoichiometry | science.widener.edu/svb/tutorial/rxnsgramstograms7.html |
| General stoichiometry | science.widener.edu/svb/tutorial/genstoichiometrycsn7.html |
| Limiting reagent | science.widener.edu/svb/tutorial/limitreagentcsn7.html |
| Percent yields | science.widener.edu/svb/tutorial/percentyieldcsn7.html |
| Online Periodic Table | www.learnerstv.com/animation/animation.php?ani=184&cat=chemistry |
| Empirical Formulas | science.widener.edu/svb/tutorial/empiricalformulascsn7.html |