

| Fall 2016 Final Exam Practice Problems - CHUNK #1 – Topics 1-8 | | |
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| Topic # | Q # | Question |
| 1 | 1 | Who were the 10 scientists that were covered in class that contributed to the development of different atomic models? What did they each contribute? |
| | 2 | Sketch and name the seven atomic models that were covered in class. |
| | 3 | Describe Rutherford's Gold Foil experiment and what it proved. |
| | 4 | What does the Quantum model say about the nature of electrons in an atom? |
| 2 | 5 | Put 0.00345 in scientific notation |
| | 6 | Put 29800000 in scientific notation |
| | 7 | What is wrong with the following number that was supposed to be put in sci. notation? 24.6×10^3 |
| | 8 | What is wrong with the following number that was supposed to be put in sci. notation? 0.54×10^2 |
| 3 | 9 | Which prefix represents 1000? |
| | 10 | Which prefix represents 1/10? |
| | 11 | What is the "base unit" for length? For volume? For mass? |
| | 12 | What is the mnemonic we use for metric system? |
| 4 | 13 | How many centimeters are in 340.2 kilometers? (remember KHDBDCM) |
| | 14 | How many millimeters are in 29.4 meters? |
| | 15 | Convert 2.7 kg into grams. |
| | 16 | Convert 0.85 mg into decagrams. |
| 5 | 17 | What is the definition of atomic mass? |
| | 18 | What does the atomic number tell you? |
| | 19 | How many neutrons does an atom of silver have? |
| | 20 | How many protons, neutrons, and electrons does each atom have? Cl Ba C Ne |
| 6 | 21 | What is an isotope? |
| | 22 | What is the difference between Carbon-12, Carbon-13, and Carbon-14? |
| | 23 | How many protons, neutrons, electrons does Bromine-80 have compared to Bromine-83? |
| | 24 | Which version of Bromine above is the more common isotope? How do you know? |
| 7 | 25 | What is a mole? |
| | 26 | Why do we use "the mole" in chemistry class? |
| 8 | 27 | Describe how to calculate molar mass for a molecule. Do you round your atomic masses or not? Why? |
| | 28 | What is the molar mass of Ag? |
| | 29 | What is the molar mass of $\text{Ca}(\text{OH})_2$ |
| | 30 | What is the molar mass of K_2SO_4 |
| | 31 | What is the molar mass of $(\text{NH}_4)_2\text{S}$, |

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