REVIEW **Dimensional Analysis, Metric Conversions, Molar Mass, Molar Conversions**

**Directions:** *Flip through your notebook and take review notes on each topic. Then solve the review problem that goes with it. Make sure to show your work and don’t forget to put units in your work and your answer!*

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| Review notes | Practice problem |
| **Scientific Notation** | **Put 0.0004523 in scientific notation** | **Put 3.49x105 in standard notation** |
| **Metric Conversions** | **Convert 450 mm into Dm** | **Convert 1.2 KL into cL** |
| **Molar Mass** | **Calculate the molar mass of MgBr2** | **Calculate the molar mass of ammonium phosphate** |
| **Single Unit Dimensional Analysis** | **Convert 8.4 pints to grams (there are 8oz in a cup)** |
| **Double Unit Dimensional Analysis** | **Convert 3.5 yds/min into km/week** |
| **Converting from grams 🡨🡪 moles** | **Convert 15 grams of Ca(OH)2 into moles** | **Convert 2.6 moles of sodium oxide to grams** |
| **Converting from moles 🡨🡪 particles** | **Convert 7.4 moles of CH4 into molecules** |
| **Convert 2.8x1028 molecules into moles** |
| **Converting from grams🡨🡪 moles 🡨🡪 particles** | **Convert 25 grams of water into molecules** |
| **Convert 4.5x1035 atoms of iron into grams** |