

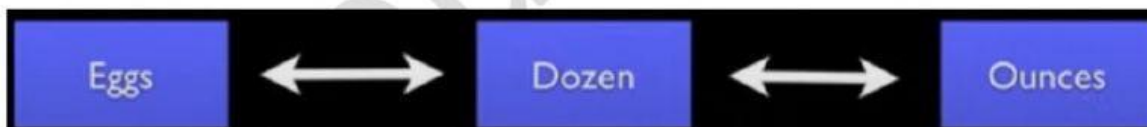
Learning Target: I will be able to convert from particles to moles to grams and vice versa.



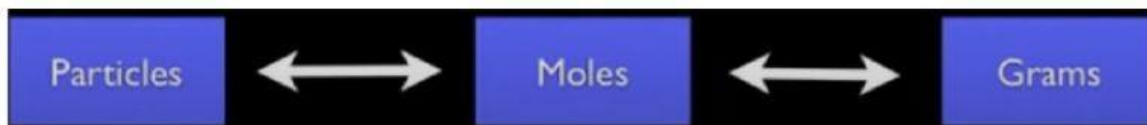
Mole Conversions Video Notes

1. What does the word mole come from? _____
2. What are the two reasons we use mole? _____

3. 1 dozen eggs = _____ ounces, 1 dozen = _____ eggs
4. Complete the eggs conversion below as shown in the video.



5. 1 mole = _____ mass (g)
1 mole = _____ particles
6. $H = \underline{\hspace{1cm}} + H = \underline{\hspace{1cm}} + O = \underline{\hspace{1cm}}$ mass of 1 mole of water = _____
7. Complete the moles conversion below as shown in the video.



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8. **Convert .200 moles of H_2SO_4 to grams.** Which conversion are you going to use? _____

Write the factor label method as shown in the video at 5:45 seconds.

Find the molar mass of H_2SO_4 to use in problem above.

H_2 (2×1.01) + S (32.06) + O_4 (4×16) = 1 mole of H_2SO_4 = _____

.200 moles of H_2SO_4 to grams = _____

9. **Convert 102.8 grams of water to molecules.** Which conversions are you going to use? _____

Write the factor label method as shown in the video at 5:45 seconds.

102.8 grams of water to molecules = _____

10. **CHECK FOR UNDERSTANDING:**

Convert 200g of H_2O to molecules. Which conversions are you going to use? _____

Use the factor label method as shown in the video to solve.