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 = _____ + H = _____ + O = _____ 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 x 1.01) + S (32.06) + O_4 (4 x 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.

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