



Creating a counting atoms worksheet involves providing chemical formulas and asking students to count the number of atoms of each element present in the compounds. Here's a simple example worksheet:

****Counting Atoms Worksheet****

****Instructions:**** Count the number of atoms for each element in the given chemical formulas.

1. H_2O

- Hydrogen (H): _____

- Oxygen (O): _____

2. CH_4

- Carbon (C): _____

- Hydrogen (H): _____

3. 2NaCl

- Sodium (Na): _____

- Chlorine (Cl): _____

4. $\text{C}_6\text{H}_{12}\text{O}_6$

- Carbon (C): _____

- Hydrogen (H): _____

- Oxygen (O): _____

5. $\text{Al}_2(\text{SO}_4)_3$

- Aluminum (Al): _____

- Sulfur (S): _____

- Oxygen (O): _____



6. $3\text{Mg}(\text{NO}_3)_2$

- Magnesium (Mg): _____

- Nitrogen (N): _____

- Oxygen (O): _____

7. Fe_2O_3

- Iron (Fe): _____

- Oxygen (O): _____

8. $\text{C}_{10}\text{H}_8\text{O}_4$

- Carbon (C): _____

- Hydrogen (H): _____

- Oxygen (O): _____

9. K_2CO_3

- Potassium (K): _____

- Carbon (C): _____

- Oxygen (O): _____

10. N_2

- Nitrogen (N): _____



****Answers:****

1. H_2O

- Hydrogen (H): 2
- Oxygen (O): 1

2. CH_4

- Carbon (C): 1
- Hydrogen (H): 4

3. 2NaCl

- Sodium (Na): 2
- Chlorine (Cl): 2

4. $\text{C}_6\text{H}_{12}\text{O}_6$

- Carbon (C): 6
- Hydrogen (H): 12
- Oxygen (O): 6

5. $\text{Al}_2(\text{SO}_4)_3$

- Aluminum (Al): 2
- Sulfur (S): 3
- Oxygen (O): 12

6. $3\text{Mg}(\text{NO}_3)_2$

- Magnesium (Mg): 3
- Nitrogen (N): 6
- Oxygen (O): 18



7. Fe_2O_3

- Iron (Fe): 2
- Oxygen (O): 3

8. $\text{C}_{10}\text{H}_8\text{O}_4$

- Carbon (C): 10
- Hydrogen (H): 8
- Oxygen (O): 4

9. K_2CO_3

- Potassium (K): 2
- Carbon (C): 1
- Oxygen (O): 3

10. N_2

- Nitrogen (N): 2

Feel free to customize the worksheet by adding more compounds or adjusting the complexity of the formulas based on the level of the students you're creating it for.