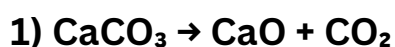


Counting Atoms Worksheet

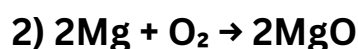
Name: _____ Grade: _____

Instructions: For each chemical equation below

1. Write the number of atoms of each element on the reactant side.
2. Write the number of atoms of each element on the product side.
3. Check if the equation is balanced (same number of atoms on both sides).



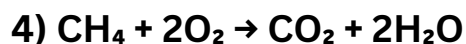
- Reactants:
 - Ca = _____
 - C = _____
 - O = _____
- Products:
 - Ca = _____
 - C = _____
 - O = _____
- Is it balanced? _____



- Reactants:
 - Mg = _____
 - O = _____
- Products:
 - Mg = _____
 - O = _____
- Is it balanced? _____



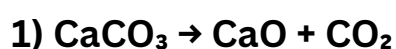
- Reactants:
 - Na = _____
 - Cl = _____
- Products:
 - Na = _____
 - Cl = _____
- Is it balanced? _____



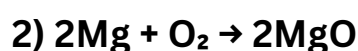
- Reactants:
 - C = _____
 - H = _____
 - O = _____
- Products:
 - C = _____
 - H = _____
 - O = _____
- Is it balanced? _____

Counting Atoms Worksheet

Answer Key



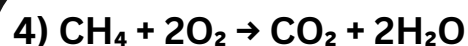
- Reactants:
 - Ca = 1
 - C = 1
 - O = 3
- Products:
 - Ca = 1
 - C = 1
 - O = 3 (1 from CaO + 2 from CO₂)
- Is it balanced? ✓ Yes



- Reactants:
 - Mg = 2
 - O = 2
- Products:
 - Mg = 2
 - O = 2 (2 × 1)
- Is it balanced? ✓ Yes



- Reactants:
 - Na = 1
 - Cl = 2
- Products:
 - Na = 1
 - Cl = 1
- Is it balanced? ✗ No (Chlorine is not balanced)



- Reactants:
 - C = 1
 - H = 4
 - O = 4 (2 × 2)
- Products:
 - C = 1
 - H = 4 (2 × 2)
 - O = 4 (2 from CO₂ + 2 from H₂O)
- Is it balanced? ✓ Yes