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	Name: _	<del></del>	
<u> </u>			

21. (A) (B) (C) (D)

22. (A) (B) (C) (D)

23. (A) (B) (C) (D)

24. (A) (B) (C) (D)

25. (A) (B) (C) (D)

# Science 9 - Unit Test - Matter and Chemical Change

#### Version 1

### Part A - Multiple Choice

- 1. (A) (B) (C) (D)
- 2. **A**BCD
- 3. (A) (B) (C) (D)
- 4. (A) (B) (C) (D)
- 5. (A) (B) (C) (D)
- 6. (A) (B) (C) (D)
- 7. (A) (B) (C) (D)
- 8. **(A) (B) (C) (D)**
- 9. **(A) (B) (C) (D)**
- 10. (A) (B) (C) (D)

- 11. (A) (B) (C) (D)
- 12. (A) (B) (C) (D)
- 13. (A) (B) (C) (D)
- 14. (A) (B) (C) (D)
- 15. **(A) (B) (C) (D)**
- 16. (A) (B) (C) (D)
- 17. (A) (B) (C) (D)
- 18. (A) (B) (C) (D)
- 19. (A) (B) (C) (D)
- 20. (A) (B) (C) (D)

# Numerical Response

1. 2. 3.
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#### Part B - Written Response

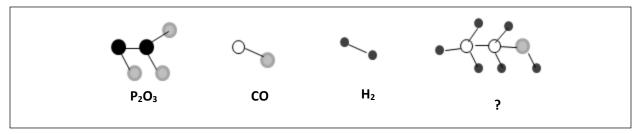
## Written Response 1

Fill in the missing information from the table below (5 marks)

Chemical Formula	Type of compound (ionic or molecular?)	Chemical name
MgO		
		sodium sulfide
CH <sub>4</sub>		
		diphosphorus pentaoxide
Be₃N₂		

## Written Response 2

Use the following information to answer Written Response 2



a.) What is the **chemical formula** for the unknown molecule? (1 mark)

\_\_\_\_\_

b.) Write the **chemical equation** for the combustion of the unknown molecule (Hint: the unknown molecule is the fuel source) (2 marks)

\_\_\_\_\_

## Written Response 3

Use the following information to answer Written Response 3

Billy is trying to determine the chemical formula for the compound that forms between rubidium and sulfur. He does the following work:

Step 1: Rb<sup>2+</sup> S<sup>2-</sup> Step 4: <u>RbS</u><sub>2</sub>

Step 2: Rb1+ Answer: The compound that forms between rubidium and sulfur is

Step 3: 2+ 2- RbS<sub>2</sub>.

Billy's friend Alice says that he is wrong, and that the right answer is Rb<sub>2</sub>S. Who is correct? **Explain your answer**. (2 marks)