

# PHYSICAL SETTING CHEMISTRY

Thursday, January 28, 2010 — 1:15 to 4:15 p.m., only

## ANSWER BOOKLET

Student ..... Sex:  Male  
 Female

Teacher: .....

School ..... Grade .....

Answer all questions in Part B-2 and Part C. Record your answers  
 in this booklet.

Part	Maximum Score	Student's Score
A	30	
B-1	20	
B-2	16	
C	19	
Total Written Test Score (Maximum Raw Score: 85)		<input type="text"/>
Final Score (from conversion chart)		<input type="text"/>
Raters' Initials:		
Rater 1 .....		Rater 2 .....

Part B-2		For Raters Only			
51 _____ g		51 <input type="text"/>			
52 _____ d		52 <input type="text"/>			
53 _____		53 <input type="text"/>			
54 _____		54 <input type="text"/>			
55	<table border="1"> <tr> <th>Key</th> <td rowspan="2"><input type="text"/></td> </tr> <tr> <td>○ = CO<sub>2</sub> molecule</td> </tr> </table>	Key	<input type="text"/>	○ = CO <sub>2</sub> molecule	55 <input type="text"/>
Key	<input type="text"/>				
○ = CO <sub>2</sub> molecule					

**For Raters  
Only**

**56**

**56**

\_\_\_\_\_ g

**57**

**57**

**58**

**58**

**59**

**59**

**60**

**60**

**For Raters  
Only**

61 \_\_\_\_\_

61

62 \_\_\_\_\_ m

62

63 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

63

64 \_\_\_\_\_

64

65 \_\_\_\_\_

65

**Total Score  
for Part B-2**

**Part C**

**For Raters  
Only**

66 \_\_\_\_\_  
\_\_\_\_\_

66

67 \_\_\_\_\_

67

68 \_\_\_\_\_ g

68

69 \_\_\_\_\_  
\_\_\_\_\_

69

70 \_\_\_\_\_ Mg(s) + \_\_\_\_\_ HCl(aq) → \_\_\_\_\_ H<sub>2</sub>(g) + \_\_\_\_\_ MgCl<sub>2</sub>(aq)

70

71 \_\_\_\_\_

71

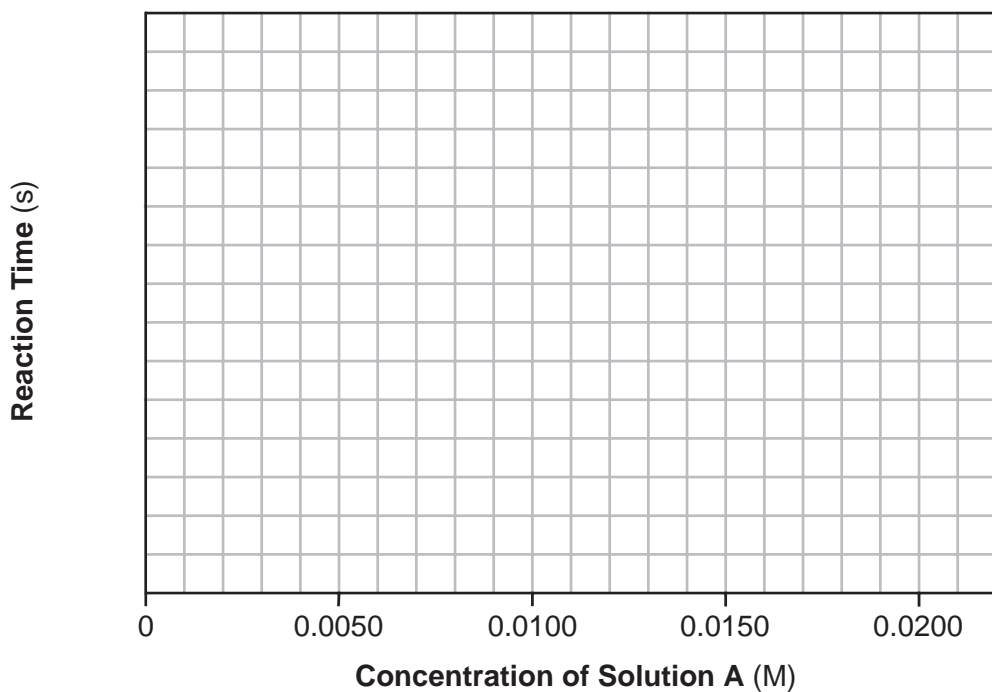
For Raters Only

72 \_\_\_\_\_  
\_\_\_\_\_

72

73 and 74

Reaction Time Versus Concentration of Solution A



73

74

75 \_\_\_\_\_

75

76 Protons: \_\_\_\_\_

76

Neutrons: \_\_\_\_\_

77 \_\_\_\_\_

77

78 \_\_\_\_\_

78

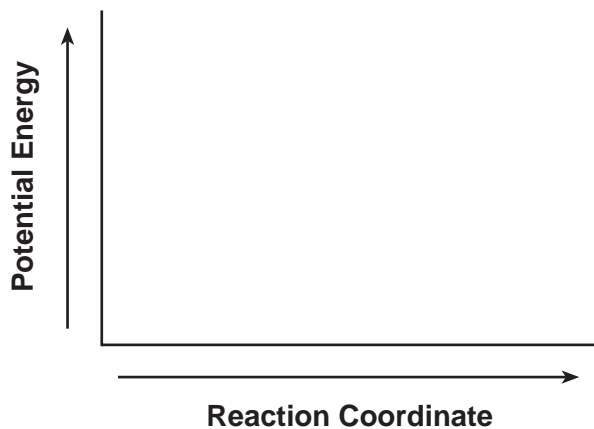
\_\_\_\_\_

For Raters  
Only

79 \_\_\_\_\_

79

80



80

81 \_\_\_\_\_

81

82 \_\_\_\_\_

82

\_\_\_\_\_

83 From \_\_\_\_\_ to \_\_\_\_\_

83

84 \_\_\_\_\_

84

\_\_\_\_\_

\_\_\_\_\_

Total Score  
for Part C



PS/CHEMISTRY

PS/CHEMISTRY