

PHYSICAL SETTING CHEMISTRY

Wednesday, August 18, 2010 — 12:30 to 3:30 p.m., only

ANSWER BOOKLET

Student Sex: Male
 Female
 Teacher
 School Grade

Answer all questions in this examination. Record your answers in this booklet.

Part	Maximum Score	Student's Score
A	30	
B-1	20	
B-2	15	
C	20	
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 A

- | | | |
|----------|----------|----------|
| 1 | 11 | 21 |
| 2 | 12 | 22 |
| 3 | 13 | 23 |
| 4 | 14 | 24 |
| 5 | 15 | 25 |
| 6 | 16 | 26 |
| 7 | 17 | 27 |
| 8 | 18 | 28 |
| 9 | 19 | 29 |
| 10 | 20 | 30 |

Part A Score

Part B-1

- | | |
|----------|----------|
| 31 | 41 |
| 32 | 42 |
| 33 | 43 |
| 34 | 44 |
| 35 | 45 |
| 36 | 46 |
| 37 | 47 |
| 38 | 48 |
| 39 | 49 |
| 40 | 50 |

Part B-1 Score

The declaration below must be signed when you have completed the examination.

I do hereby affirm, at the close of this examination, that I had no unlawful knowledge of the questions or answers prior to the examination and that I have neither given nor received assistance in answering any of the questions during the examination.

Signature

Part B-2

**For Raters
Only**

51 _____

51

52 Metal: _____

Metalloid: _____

Nonmetal: _____

52

53

53

_____ **cm³**

54 _____

54

55 _____

55

56 _____

56

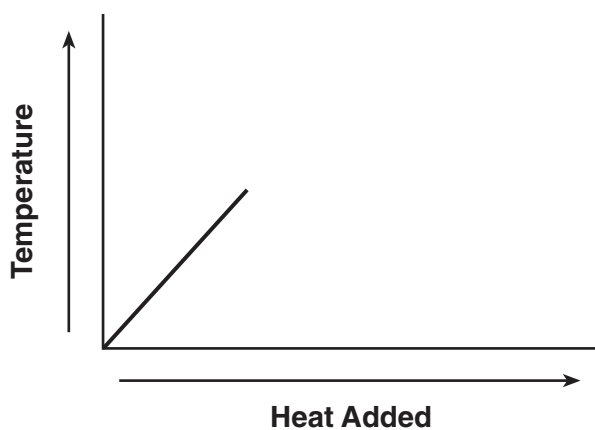
57

Key	
●	= atom of hydrogen
○	= atom of oxygen



57

58



58

59

59

60

60

**For Raters
Only**

61 _____ **K**

61

62 _____

62

63 _____

63

**Total Score
for Part B-2**

Part C

For Raters Only

64 _____

64

65 _____ mol

65

66 _____

66

67 _____

67

68

68

69 _____

69

70 _____

70

71

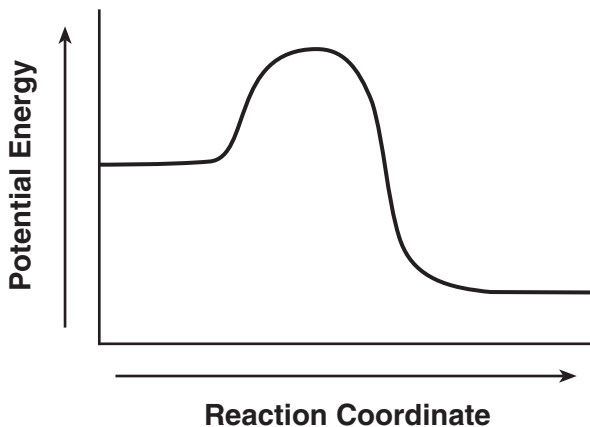
71

_____ g

72 _____ g/mol

72

73



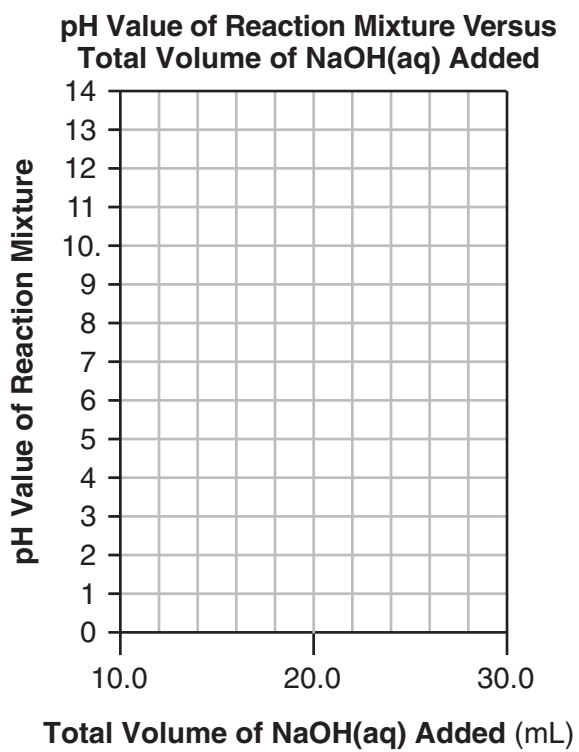
73

74 CO: _____

CO₂: _____

74

75



75

76 _____ mL

76

**For Raters
Only**

77 _____

77

78

78

_____ M

79 _____

79

80 _____ \rightarrow ${}^4_2\text{He} + {}^{206}_{82}\text{Pb}$

80

81 _____ mg

81

**Total Score
for Part C**

