

Name: _____
SI Physics
Period: _____

Date: _____
Kinematics Review #1 [15 pts]
Mrs. Nadworny

Kinematics Review #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 1 – 9. On p. 9 answer questions #1 – 7 (odd)

1. _____ 3. _____ 5. _____
7. _____

Read p. 10 – 15. On p. 15 answer questions #9 – 45 (odd)

9. _____ 11. _____ 13. _____
15. _____ 17. _____ 19. _____
21. _____ 23. _____ 25. _____
27. _____ 29. _____ 31. _____
33. _____ 35. _____ 37. _____
39. _____ 41. _____ 43. _____
45. _____

Read p. 199 – 205. On p. 206 answer questions #1 – 7 (odd)

1. _____ 3. _____ 5. _____
7. _____

Name: _____
SI Physics
Period: _____

Date: _____
Vectors & Projectiles #1 [5 pts]
Mrs. Nadworny

Vectors & Projectiles Review #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 38 – 41. On p. 41 answer questions #182 – 191

182. _____ 183. _____ 184. _____
185. _____ 186. _____ 187. _____
188. _____ 189. _____ 190. _____
191. _____

Name: _____
SI Physics
Period: _____

Date: _____
Forces Review #1 [15 pts]
Mrs. Nadworny

Forces Review #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 18 –20. On p. 20 answer questions #47 – 63 (odd)

- | | | |
|-----------|-----------|-----------|
| 47. _____ | 49. _____ | 51. _____ |
| 53. _____ | 55. _____ | 57. _____ |
| 59. _____ | 61. _____ | 63. _____ |

Read p. 22 –25. On p. 26 answer questions #67 – 119 (odd)

- | | | |
|------------|------------|------------|
| 67. _____ | 69. _____ | 71. _____ |
| 73. _____ | 75. _____ | 77. _____ |
| 79. _____ | 81. _____ | 83. _____ |
| 85. _____ | 87. _____ | 89. _____ |
| 91. _____ | 93. _____ | 95. _____ |
| 97. _____ | 99. _____ | 101. _____ |
| 103. _____ | 105. _____ | 107. _____ |
| 109. _____ | 111. _____ | 113. _____ |
| 115. _____ | 117. _____ | 119. _____ |

Read p. 30 –31. On p. 31 answer questions #127 – 149 (odd)

- | | | |
|------------|------------|------------|
| 127. _____ | 129. _____ | 131. _____ |
| 133. _____ | 135. _____ | 137. _____ |
| 139. _____ | 141. _____ | 143. _____ |
| 145. _____ | 147. _____ | 149. _____ |

Name: _____
SI Physics
Period: _____

Date: _____
Gravity, Circles Review #1 [15 pts]
Mrs. Nadworny

Gravity, Circles, Kepler Review #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 23 –24. On p. 26 answer the following questions

- | | | |
|------------|------------|------------|
| 72. _____ | 84. _____ | 91. _____ |
| 103. _____ | 116. _____ | 117. _____ |

Read p. 41. On p. 42 answer questions #193 – 215 (odd)

- | | | |
|------------|------------|------------|
| 193. _____ | 195. _____ | 197. _____ |
| 199. _____ | 201. _____ | 203. _____ |
| 205. _____ | 207. _____ | 209. _____ |
| 211. _____ | 213. _____ | 215. _____ |

Read p. 54 - 55. On p. 55 answer questions #E1 – E13

- | | | |
|------------|------------|------------|
| E1. _____ | E2. _____ | E3. _____ |
| E4. _____ | E5. _____ | E6. _____ |
| E7. _____ | E8. _____ | E9. _____ |
| E10. _____ | E11. _____ | E12. _____ |
| E13. _____ | | |

Name: _____
SI Physics
Period: _____

Date: _____
Momentum Review #1 [15 pts]
Mrs. Nadworny

Momentum Review #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 33 –36. On p. 36 answer questions #151 – 181

- | | | |
|------------|------------|------------|
| 151. _____ | 152. _____ | 153. _____ |
| 154. _____ | 155. _____ | 156. _____ |
| 157. _____ | 158. _____ | 159. _____ |
| 160. _____ | 161. _____ | 162. _____ |
| 163. _____ | 164. _____ | 165. _____ |
| 166. _____ | 167. _____ | 168. _____ |
| 169. _____ | 170. _____ | 171. _____ |
| 172. _____ | 173. _____ | 174. _____ |
| 175. _____ | 176. _____ | 177. _____ |
| 178. _____ | 179. _____ | 180. _____ |
| 181. _____ | | |

Name: _____
SI Physics
Period: _____

Date: _____
Energy Review #1 [15 pts]
Mrs. Nadworny

Energy Review #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 57 –59. On p. 59 answer questions #1 – 23 (odd)

- | | | |
|-----------|-----------|-----------|
| 1. _____ | 3. _____ | 5. _____ |
| 7. _____ | 9. _____ | 11. _____ |
| 13. _____ | 15. _____ | 17. _____ |
| 19. _____ | 21. _____ | 23. _____ |

Read p. 60 –64. On p. 64 answer questions #25 – 47 (odd)

- | | | |
|-----------|-----------|-----------|
| 25. _____ | 27. _____ | 29. _____ |
| 31. _____ | 33. _____ | 35. _____ |
| 37. _____ | 39. _____ | 41. _____ |
| 43. _____ | 45. _____ | 47. _____ |

Read p. 66 –68. On p. 68 answer questions #49 – 79 (odd)

- | | | |
|-----------|-----------|-----------|
| 49. _____ | 51. _____ | 53. _____ |
| 55. _____ | 57. _____ | 59. _____ |
| 61. _____ | 63. _____ | 65. _____ |
| 67. _____ | 69. _____ | 71. _____ |
| 73. _____ | 75. _____ | 77. _____ |
| 79. _____ | | |

Name: _____
SI Physics
Period: _____

Date: _____
Thermal #1 [15 pts]
Mrs. Nadworny

Thermal #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 78 - 79. On p. 79 answer questions #E1 – E11

- E1. _____ E2. _____ E3. _____
E4. _____ E5. _____ E6. _____
E7. _____ E8. _____ E9. _____
E10. _____ E11. _____

1. An unknown liquid with a mass of 0.010 kilogram absorbs 0.032 kilojoule of heat. Its temperature rises 8.0 °C, with no change in phase. Calculate the specific heat of the unknown liquid.
2. Calculate the amount of heat needed to change 3.0 kilograms of ice at 0.0 °C to water at 0.0 °C.
3. A 4.75 kilogram sample of aluminum absorbs 26.43 kilojoules of thermal energy. Calculate the temperature change on the sample.
4. A 0.421 kilogram copper pot at 24.5 °C has 0.975 kilogram of water at 96.5 °C poured into it. Calculate the final temperature of the pot and water.

Name: _____
SI Physics
Period: _____

Date: _____
Electrostatics Review #1 [15 pts]
Mrs. Nadworny

Electrostatics Review #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 81 – 84. On p. 84 answer questions #1 – 43 (odd)

1. _____ 3. _____ 5. _____
7. _____ 9. _____ 11. _____
13. _____ 15. _____ 17. _____
19. _____ 21. _____ 23. _____
25. _____ 27. _____ 29. _____
31. _____ 33. _____ 35. _____
37. _____ 39. _____ 41. _____
43. _____

Read p. 89 – 92. On p. 92 answer questions #45 – 65 (odd)

45. _____ 47. _____ 49. _____
51. _____ 53. _____ 55. _____
57. _____ 59. _____ 61. _____
63. _____ 65. _____

Name: _____
SI Physics
Period: _____

Date: _____
Circuits Review #1 [15 pts]
Mrs. Nadworny

Circuits Review #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 94 – 97. On p. 97 answer questions #67 – 99 (odd)

- | | | |
|-----------|-----------|-----------|
| 67. _____ | 69. _____ | 71. _____ |
| 73. _____ | 75. _____ | 77. _____ |
| 79. _____ | 81. _____ | 83. _____ |
| 85. _____ | 87. _____ | 89. _____ |
| 91. _____ | 93. _____ | 95. _____ |
| 97. _____ | 99. _____ | |

Read p. 99 – 103. On p. 103 answer questions #101 – 127 (odd)

- | | | |
|------------|------------|------------|
| 101. _____ | 103. _____ | 105. _____ |
| 107. _____ | 109. _____ | 111. _____ |
| 113. _____ | 115. _____ | 117. _____ |
| 119. _____ | 121. _____ | 123. _____ |
| 125. _____ | 127. _____ | |

Name: _____
SI Physics
Period: _____

Date: _____
Magnetism Review #1 [15 pts]
Mrs. Nadworny

Magnetism Review #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 106 – 108. On p. 108 answer questions #129 – 137 (odd)

- | | | |
|------------|------------|------------|
| 129. _____ | 131. _____ | 133. _____ |
| 135. _____ | 137. _____ | |

Read p. 109 – 111. On p. 111 answer questions #139 – 145 (odd), skip 143

- | | | |
|------------|------------|------------|
| 139. _____ | 141. _____ | 145. _____ |
|------------|------------|------------|

Read p. 119 – 120. On p. 121 answer questions #E1 – E5.

- | | | |
|-----------|-----------|-----------|
| E1. _____ | E2. _____ | E3. _____ |
| E4. _____ | E5. _____ | |

Read p. 120 – 123. On p. 124 answer the following questions.

- | | | |
|------------|------------|------------|
| E20. _____ | E21. _____ | E22. _____ |
| E23. _____ | E27. _____ | E28. _____ |

Read p. 128 – 132. On p. 132 answer questions #E55 – E73 (odd), skip E71

- | | | |
|------------|------------|------------|
| E55. _____ | E57. _____ | E59. _____ |
| E61. _____ | E63. _____ | E65. _____ |
| E67. _____ | E69. _____ | E73. _____ |

Name: _____
SI Physics
Period: _____

Date: _____
Waves Review #1 [15 pts]
Mrs. Nadworny

Waves Review #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 136 – 139. On p. 139 answer questions #1 – 33 (odd)

- | | | |
|-----------|-----------|-----------|
| 1. _____ | 3. _____ | 5. _____ |
| 7. _____ | 9. _____ | 11. _____ |
| 13. _____ | 15. _____ | 17. _____ |
| 19. _____ | 21. _____ | 23. _____ |
| 25. _____ | 27. _____ | 29. _____ |
| 31. _____ | 33. _____ | |

Read p. 141 – 142. On p. 142 answer questions #35 – 45 (odd)

- | | | |
|-----------|-----------|-----------|
| 35. _____ | 37. _____ | 39. _____ |
| 41. _____ | 43. _____ | 45. _____ |

Read p. 143 – 145. On p. 145 answer questions #47 – 71 (odd)

- | | | |
|-----------|-----------|-----------|
| 47. _____ | 49. _____ | 51. _____ |
| 53. _____ | 55. _____ | 57. _____ |
| 59. _____ | 61. _____ | 63. _____ |
| 65. _____ | 67. _____ | 69. _____ |
| 71. _____ | | |

Read p. 147 – 149. On p. 149 answer questions #73 – 87 (odd)

- | | | |
|-----------|-----------|-----------|
| 73. _____ | 75. _____ | 77. _____ |
| 79. _____ | 81. _____ | 83. _____ |
| 85. _____ | 87. _____ | |

Name: _____
SI Physics
Period: _____

Date: _____
Reflect Refract Review #1 [10 pts]
Mrs. Nadworny

Reflection and Refraction Review #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 150 – 153. On p. 154 answer questions #89 – 107.

- | | | |
|------------|------------|------------|
| 89. _____ | 90. _____ | 91. _____ |
| 92. _____ | 93. _____ | 94. _____ |
| 95. _____ | 96. _____ | 97. _____ |
| 98. _____ | 99. _____ | 100. _____ |
| 101. _____ | 102. _____ | 103. _____ |
| 104. _____ | 105. _____ | 106. _____ |
| 107. _____ | | |

Name: _____
SI Physics
Period: _____

Date: _____
Optics Review #1 [15 pts]
Mrs. Nadworny

Mirrors and Lenses Review #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

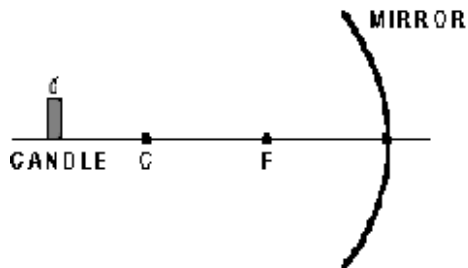
Read p. 162 – 163. On p. 163 answer questions #E1 – E8.

- E1. _____ E2. _____ E3. _____
E4. _____ E5. _____ E6. _____
E7. _____ E8. _____

Read p. 164 – 170. On p. 170 answer questions #E9 – E41 (odd).

- E9. _____ E11. _____ E13. _____
E15. _____ E17. _____ E19. _____
E21. _____ E23. _____ E25. _____
E27. _____ E29. _____ E31. _____
E33. _____ E35. _____ E37. _____
E39. _____ E41. _____

1. A candle is located beyond the center of curvature, C, of a concave spherical mirror having principal focus, F, as shown in the diagram below. Using a well-drawn ray diagram, find the image of the candle. [4 pts]



Name: _____
SI Physics
Period: _____

Date: _____
Modern Review #1 [15 pts]
Mrs. Nadworny

Modern Physics Review #1

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 173 – 174. On p. 174 answer questions #1 – 11 (odd)

1. _____ 3. _____ 5. _____
7. _____ 9. _____ 11. _____

Read p. 175 – 179. On p. 179 answer questions #13 – 25 (odd)

13. _____ 15. _____ 17. _____
19. _____ 21. _____ 23. _____
25. _____

Read p. 180 – 182. On p. 182 answer questions #27 – 45 (odd)

27. _____ 29. _____ 31. _____
33. _____ 35. _____ 37. _____
39. _____ 41. _____ 43. _____
45. _____

Read p. 187 – 188. On p. 189 answer questions #E1 – E31 (odd).

- E1. _____ E3. _____ E5. _____
E7. _____ E9. _____ E11. _____
E13. _____ E15. _____ E17. _____
E19. _____ E21. _____ E23. _____
E25. _____ E27. _____ E29. _____
E31. _____

Name: _____
SI Physics
Period: _____

Date: _____
Kinematics Review #2 [20 pts]
Mrs. Nadworny

98. [2 pts]

Kinematics Review #2

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

On p. 45 answer the following questions.

2. _____

3. _____

5. _____

9. _____

22. _____

25. _____

26. _____

27. _____

28. _____

29. _____

38. [1 pt] _____

54. [2 pts]

55. [1 pt] _____

62. [2 pts]

99. [1 pt] _____

64. [1 pt] _____

65. [1 pt] _____

81. [4 pts]

Name: _____

Date: _____

SI Physics

Vectors & Projectiles #2 [20 pts]

Period: _____

Mrs. Nadworny

88. [1 pt]

Vectors & Projectiles Review #2

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

On p. 45 answer the following questions.

1. _____

21. _____

34. _____

93. [1 pt]

35. [2 pts]

39. [1 pt] _____

40. [1 pt] _____

41. [1 pt] _____

42. [1 pt]

94. [2 pts]

63. [2 pts]

95. [2 pts]

86. [1 pt]

87. [1 pt] _____

Continued on back

Name: _____
SI Physics
Period: _____

Date: _____
Forces Review #2 [25 pts]
Mrs. Nadworny

89. [4 pts]

Forces Review #2

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

On p. 46 answer the following questions.

8. _____ 10. _____ 13. _____

14. _____ 17. _____ 18. _____

19. _____ 23. _____ 24. _____

90. [2 pts]

36. [2 pts]

37. [1 pt] _____

91. [1 pt]

46. [2 pts]

48. [2 pts]

66. [1 pt] _____

67 and 68. [3 pts] Use a scale of 2.0×10^{-15} N

92. [2 pts]

69. [1 pt] _____

70. [1 pt] _____

Continued on back

Name: _____
SI Physics
Period: _____

Date: _____
Gravity, Circles Review #2 [25 pts]
Mrs. Nadworny

59. [2 pts]

Gravity, Circles, Kepler Review #2

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

On p. 45 answer the following questions.

4. _____ 6. _____ 11. _____

12. _____ 15. _____ 20. _____

30. _____ 31. _____ 32. _____

33. _____

82. [1 pt]

51. [2 pts]

83. [1 pt]

52. [1 pt] _____

84. [3 pts]

53. [1 pt]

85. [1 pt]

56. [2 pts]

101. [2 pts]

57. [2 pts]

102. [1 pt] _____

58. [1 pt]

Continued on back

Name: _____

Date: _____

SI Physics

Momentum Review #2 [15 pts]

Period: _____

Mrs. Nadworny

Momentum Review #2

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

On p. 46 answer the following questions.

7. _____

16. _____

49. [1 pt]

60. [2 pts]

61. [1 pt] _____

Answer the following questions.

1. Calculate the magnitude of the impulse applied to a 0.75 kilogram cart to change its velocity from 0.50 meters per second east to 2.00 meters per second east. [2 pts]
2. A 3.1 kilogram gun initially at rest is free to move. When a 0.015 kilogram bullet leaves the gun with a speed of 500 meters per second, what is the speed of the gun? [2 pts]

3. A 1200 kilogram car moving at 12 meters per second collides with a 2300 kilogram car that is waiting at rest at a traffic light. After the collision, the cars lock together and slide. Eventually the combined cars are brought to rest by a force of kinetic friction as the rubber tires slide across the dry, level asphalt road surface. Calculate the speed of the locked together cars immediately after the collision. [2 pts]

4. A student pushes a red car, with a mass of 0.355 kg along the track with a velocity of 0.095 m/s right. It collides with the blue car, which has a mass of 0.710 kg and was also moving right with a speed of 0.045 m/s. After the collision, the red car continues in the same direction at 0.035 m/s. Calculate the speed of the blue car after the collision. [2 pts]

5. A 2.0 kilogram cart moving due east at 6.0 meters per second collides with a 3.0 kilogram cart moving due west. The carts stick together and come to rest after the collision. What was the initial speed of the 3.0 kilogram cart? [2 pts]

Name: _____
SI Physics
Period: _____

Date: _____
Energy Review #2 [30 pts]
Mrs. Nadworny

Energy Review #2

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

On p. 72 answer the following questions

- | | | |
|-----------|-----------|-----------|
| 1. _____ | 2. _____ | 3. _____ |
| 7. _____ | 9. _____ | 10. _____ |
| 11. _____ | 13. _____ | 15. _____ |
| 16. _____ | 17. _____ | 18. _____ |
| 20. _____ | 23. _____ | 24. _____ |
| 27. _____ | 28. _____ | 30. _____ |
| 31. _____ | 32. _____ | 33. _____ |

36. [1 pt] _____ 38. [1 pt] _____

37. [2 pts]

39. [1 pt]

40. [1 pt]

41. [2 pts]

49. [2 pts]

50. [2 pts]

51. [1 pt] _____

52. [2 pts]

53. [2 pts]

54. [1 pt] _____

58. [1 pt] _____

59. [2 pts]

60. [2 pts]

61. [2 pts]

65. [1 pt] _____

Name: _____ Date: _____
Honors Physics Thermal Energy Review #2 [15 pts]
Period: _____ Mrs. Nadworny

Thermal Energy Review #2

Directions – Answer the following questions.

- Samples of lead, platinum, silver and tungsten each have a mass of 1.0 kilogram and an initial temperature of 20.°C. If 10. kilojoules of heat are added to each sample, which sample will experience the *smallest* increase in temperature?
(A) silver, because it has the highest specific heat
(B) platinum, because it has the lowest heat of vaporization
(C) lead, because it has the lowest heat of fusion
(D) tungsten, because it has the highest melting point
- Equal masses of aluminum and copper, both at 0°C, are placed in the same insulated can of hot water. Which statement describes this system at equilibrium (the net exchange of internal energy is zero)?
(A) The aluminum has a higher temperature than the copper and water.
(B) The aluminum, copper and water have the same temperature.
(C) The copper has a higher temperature than the aluminum and water.
(D) The water has a higher temperature than the aluminum and copper.
- Which substance remains a liquid over the *smallest* temperature range?
(A) lead (B) copper (C) iron (D) silver
- In a certain process, 400 joules of heat are added to a system and the system simultaneously does 100 joules of work. The change in internal energy of the system is
(A) 500 J (B) 300 J (C) 400 J (D) 100 J
- If the volume of a gas is decreased while temperature is constant, which will occur?
(A) The average kinetic energy of the molecules of the gas will increase.
(B) The average kinetic energy of the molecules of the gas will decrease.
(C) The mass of the gas will decrease
(D) The pressure of the gas will increase
(E) The pressure of the gas will decrease.
- Show all of you work with the GUESS method on the back of this page for this question. A 9.50 kilogram sample of ice at - 11.2 °C is heated to steam at 111.2 °C. Calculate the amount of energy needed to do this. [12 pts]

Name: _____ Date: _____
SI Physics Electrostatics Review #2 [15 pts]
Period: _____ Mrs. Nadworny

Electrostatics Review #2

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

On p. 113 answer the following questions.

1. _____ 2. _____ 3. _____
4. _____

39. [1 pt] _____

47. [2 pts]

48. [2 pts]

49. [1 pt] _____

50. [2 pts]

51. [1 pt]

52. [1 pt]

66. [2 pts]

Name: _____
SI Physics
Period: _____

Date: _____
Circuits Review #2 [30 pts]
Mrs. Nadworny

60. [2 pts]

Circuits Review #2

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

61. [2 pts]

On p. 113 answer the following questions.

- | | | |
|-----------|-----------|-----------|
| 5. _____ | 6. _____ | 7. _____ |
| 8. _____ | 10. _____ | 11. _____ |
| 12. _____ | 15. _____ | 17. _____ |
| 18. _____ | 19. _____ | 20. _____ |
| 21. _____ | 22. _____ | 23. _____ |
| 24. _____ | 25. _____ | 26. _____ |

64. [2 pts]

65. [2 pts]

27. [1 pt]

28. [1 pt] _____

67. [2 pts]

42 and 43. [2 pts]

68. [1 pt] _____

69. [2 pts]

44. [1 pt] _____

45. [2 pts]

70. [1 pt] _____

46. [1 pt] _____

71. [1 pt] _____

Continued on next page

Name: _____
SI Physics
Period: _____

Date: _____
Magnetism Review #2 [15 pts]
Mrs. Nadworny

Magnetism Review #2

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 106 – 108. On p. 108 answer questions #130 – 134 (even)

130. _____ 132. _____ 134. _____

Read p. 109 – 111. On p. 111 answer questions #138 – 142 (even)

138. _____ 140. _____ 142. _____

Read p. 119 – 120. On p. 120 answer questions #E16 – E19.

E16. _____ E17. _____ E18. _____

E19. _____

Read p. 128 – 132. On p. 132 answer questions #E54 – E74 (even)

E54. _____ E56. _____ E58. _____

E60. _____ E62. _____ E64. _____

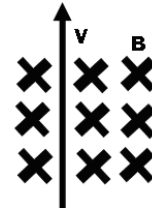
E66. _____ E68. _____ E70. _____

E72. _____ E74. _____

1. A potential difference of 12 volts is induced across a 0.20 meter long straight wire as it is moved at a constant speed of 3.0 meters per second perpendicular to a uniform magnetic field. Calculate the strength of the magnetic field. [2 pts]

2. A positively charged particle traveling at 7.5×10^5 meters per second enters a uniform magnetic field perpendicular to the lines of force. While in the 4.0×10^{-2} tesla magnetic field, a net force of 9.6×10^{-15} newton acts on the particle. What is the magnitude of the charge on the particle? [2 pts]

3. A 1.25 meter long wire, which has 250 miliamperes of electron flow running through it, is moving at right angles to 9.31 Tesla magnetic field. Calculate the force acting on the wire. [2 pts]



Name: _____
SI Physics
Period: _____

Date: _____
Waves Review #2 [20 pts]
Mrs. Nadworny

Waves Review #2

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

On p. 156 answer the following questions.

- | | | |
|-----------|-----------|-----------|
| 1. _____ | 2. _____ | 3. _____ |
| 4. _____ | 5. _____ | 6. _____ |
| 7. _____ | 8. _____ | 9. _____ |
| 12. _____ | 13. _____ | 15. _____ |

16. [1 pt]

29. [2 pts]

32. [1 pt]

34. [1 pt] _____

35. [2 pts]

36. [1 pt] _____

38. [1 pt] _____

43. [2 pts]

46. [1 pt] _____

47. [1 pt]

48. [1 pt]

49. [2 pts]

58. [1 pt] _____

59. [1 pt]

Name: _____
SI Physics
Period: _____

Date: _____
Reflect Refract Review #2 [25 pts]
Mrs. Nadworny

33. [2 pts]

Reflection and Refraction Review #2

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

40. [2 pts]

Read p. 150 – 153. On p. 154 answer the following questions.

10. _____ 11. _____ 14. _____

20. [1 pt] _____

41. [1 pt]

21. [1 pt]

42. [1 pt] _____

25. [1 pt] _____

56. [2 pts]

26. [2 pts]

27. [1 pt]

57. [2 pts]

28. [1 pt] _____

60. [1 pt] _____

30. [1 pt]

61. [2 pts]

31. [1 pt] _____

62. [1 pt]

Name: _____
SI Physics
Period: _____

Date: _____
Optics Review #2 [15 pts]
Mrs. Nadworny

Mirrors and Lenses Review #2

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

Read p. 164 – 170. On p. 170 answer questions #E10 –E42 (even).

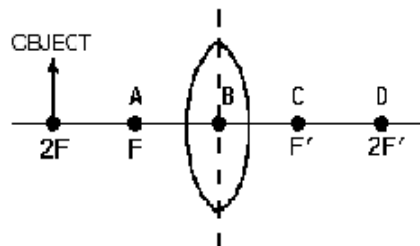
- | | | |
|------------|------------|------------|
| E10. _____ | E12. _____ | E14. _____ |
| E16. _____ | E18. _____ | E20. _____ |
| E22. _____ | E24. _____ | E26. _____ |
| E28. _____ | E30. _____ | E32. _____ |
| E34. _____ | E36. _____ | E38. _____ |
| E40. _____ | E42. _____ | |

Read the following information and answer the questions that follow.

2. A crown glass converging lens has a focal length of 0.10 meter. A 0.070 meter high object is placed 0.30 meter from the lens.
 - a. Calculate how far from the lens the image will be formed. [2 pts]

 - b. Calculate how tall the image will be. [2 pts]

3. The diagram below represents an object placed two focal lengths from a converging lens. Using a well-drawn ray diagram, find the image of the arrow. [4 pts]



Name: _____
SI Physics
Period: _____

Date: _____
Modern Review #2 [30 pts]
Mrs. Nadworny

Modern Physics Review #2

Directions – Read the following pages and answer the questions specified. Write the number of your selected answer.

On p. 184 answer the following questions

- | | | |
|----------|----------|----------|
| 1. _____ | 2. _____ | 3. _____ |
| 4. _____ | 5. _____ | 6. _____ |
| 7. _____ | 8. _____ | 9. _____ |

10. [1 pt] _____

11. [2 pts]

12. [1 pt] _____

13. [1 pt] _____

14. [1 pt] _____

15. [2 pts]

17. [2 pts]

18. [1 pt] _____

19. [1 pt] _____

20. [1 pt] _____

21. [1 pt] _____

22. [2 pts]

25. [2 pts]

26. [1 pt] _____

31. [2 pts]

32. [1 pt] _____

33. [1 pt]

38. [2 pts]

39. [2 pts]