**A note on Informal Labs:**

For informal labs I would like you to include:

Title, lab #, partners, Date

Objective, procedure, materials (Refer to book)

Your data and observations (if the data you took in the lab was excessively messy please retype and staple original to the back of your lab)

Answers to the assigned questions and a conclusion.

Class: 1-1

Table 1. Class data for varying concentration of KIO3 in reaction. Time for reaction in seconds

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Group Members | 10mL | 9mL | 8mL | 7mL | 6mL | 5mL | 4mL | 3mL | 2mL |
| Sina, Bharat, Calvin | 18.2 |  | 16.3 |  | 16.2 |  | 18.9 |  | 25.0 |
| Esther, Gabrielle, Pedro | 16.94 | 19.11 |  | 24.86 |  | 34.90 |  | 59.52 |  |
| Philip, Sarika, Ariel | 16.74 |  | 22.86 |  | 28.58 |  | 46.59 |  | 95.74 |
| Samuel, Hardy, Anthony | 17.02 | 14.03 |  | 26.72 |  | 42.66 |  | 54.62 |  |
| Raxana, Shunit | 13.6 | 16.8 |  | 20.7 |  | 33.0 |  | 56.3 |  |
| April, Wendy, Johnny | 14.67 |  | 14.38 |  | 15.38 |  | 17.37 |  | 26.21 |
| Shiva  Mahfuza | 16.23 | 20.88 |  | 24.73 |  | 36.35 |  | 59.42 |  |
| Brian  Ethan | 16.60 | 20.68 |  | 25.06 |  | 40.70 |  | 53.60 |  |

Table 2. Class data for varying temperature of HSO3- and IO3­- reaction. Time for reaction in seconds

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Group Members | 5 oC | 10 oC | 15 oC | 20 oC | 25 oC | 30 oC | 35 oC | 40 oC |
| Sina, Bharat, Calvin |  | 41.7 |  | 28.7 |  | 24.5 |  | 17.4 |
| Esther, Gabrielle, Pedro | 74.11 |  | 40.05 |  | 36.70 |  | 23.76 |  |
| Philip, Sarika, Ariel |  | 41.75 |  | 37.17 |  | 28.68 |  | 24.63 |
| Lauren, Armaan |  | 40.37 |  | 34.70 |  | 24.11 |  | 24.25 |
| Samuel, Hardy, Anthony | 70.56 |  | 44.90 |  | 40.21 |  | 34.42 |  |
| Raxana, Shunit | 36.5 |  | 17.5 |  | 20.2 |  | 25.5 |  |
| April, Wendy, Johnny |  | 46.40 |  | 34.20 |  | 33.44 |  | 24.38 |
| Shiva  Mahfuza | 48.43 |  | 26.96 |  | 34.22 |  | 25.90 |  |
| Brian  Ethan | 49.29 |  | 41.18 |  | 35.69 |  | 34.03 |  |

Class: 1-2

Table 1. Class data for varying concentration of KIO3 in reaction. Time for reaction in seconds

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Group Members | 10mL | 9mL | 8mL | 7mL | 6mL | 5mL | 4mL | 3mL | 2mL |
| Alvin Gong, Eason Guo,  Stephen Zhang | 18 |  | 15.4 |  | 10.5 |  | 15.6 |  | 17.6 |
| Jayden Wunsch,  Eric Sun,  Melchor Matabuena | 19 |  | 23 |  | 32 |  | 43 |  | 92 |
| Hart T, Ali S, Shad H | 18.73 |  | 16.5 |  | 18.21 |  | 23,77 |  | 27.64 |
| Cole Walter, Ryan Almhjell | 19.91 | 22.34 |  | 23.37 |  | 37.22 |  | 62.36 |  |
| Karen P, Kailin H, Sandy C | 18.36 | 20.93 |  | 24.11 |  | 33.75 |  | 55.94 |  |
| Eric L,  Erica P | 17.00 |  | 25.31 |  | 30.63 |  | 49.47 |  | 100.15 |
| Alexa L.  Kelly L. | 20.19 |  | 34.16 |  | 1.09.43 |  | 4.30.09 |  |  |
| Mia F.  Alexis | 16.4 |  | 30.5 |  | 54.8 |  | 2.5 |  |  |
| Darren T  Tony G  Ryan C |  | 29.9 |  | 59.0 |  | 143 |  | 780+ (n.c.) |  |
| Joshua Y, Arshia A. | 22.62 |  | 28.68 |  | 35.13 |  | 53.58 |  | 1:34.68 |
|  |  |  |  |  |  |  |  |  |  |

Table 2. Class data for varying temperature of HSO3- and IO3­- reaction. Time for reaction in seconds

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Group Members | 5 oC | 10 oC | 15 oC | 20 oC | 25 oC | 30 oC | 35 oC | 40 oC |
| Jayden Wunsch,  Eric Sun,  Melchor Matabuena |  | 48 |  | 38 |  | 32 |  | 27 |
| Alvin Gong, Eason Guo,  Stephen Zhang |  | 15 |  | 58.8 |  | 42.2 |  | 38 |
| Ali S, Hart T, Shad H |  | 63.72 |  | 51.90 |  | 35.77 |  | 31.95 |
| Cole Walter, Ryan Almhjell | 61.86 |  | 46.10 |  | 37.53 |  | 30.81 |  |
| Karen P, Kailin H, Sandy C | 70.02 |  | 44.57 |  | 41.09 |  | 37.34 |  |
| Eric L, Erica P |  | 43.04 |  | 39.73 |  | 37.67 |  | 33.72 |
| Kelly L.  Alexa L. |  | 1:00.68 |  | 42.07 |  | 40.45 |  | 30.53 |
| Mia F.  Alexis Y. |  | 52 |  | 37.18 |  | 30.60 |  | 6.57 |
| Darren T  Tony G  Ryan C | 59.2 |  | 43.1 |  | 34.3 |  | 32.1 |  |
| Joshua Y, Arshia A. |  | 52.32 |  | 42.34 |  | 34.75 |  | 33.20 |
|  |  |  |  |  |  |  |  |  |

Class: 1-4

Table 1. Class data for varying concentration of KIO3 in reaction. Time for reaction in seconds

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Group Members | 10mL | 9mL | 8mL | 7mL | 6mL | 5mL | 4mL | 3mL | 2mL |
| Callum, Jamie | 15.66s |  | 21.46s |  | 31.16s |  | 42.89s |  | 85.63s |
| Nadia, Denis | 18.02 |  | 19.26 |  | 26.15 |  | 43.04 |  | 94.27 |
| Akshayan,  Apollo,  Christian | 20.21 |  | 18.11 |  | 18.79 |  | 18.56 |  | 28.53 |
| Edward Z  Matthew L  Leo C | 21.3 |  | 22.0 |  | 28.1 |  | 42.7 |  | 92.0 |
| Cyrus C  Adam A | 13.2s |  | 17.9s |  | 20.0s |  | 23.4s |  | 34.5s |
| Eyiya K  Jessa S  Kim S | 19.0 | 19.35 |  | 43.42 |  | 30.65 |  | 63.12 |  |
| Tawhid H  Talha P. | 19.09 | 21.13 |  | 22.55 |  | 24.23 |  | 29.06 |  |
| Natalie H.  Annita P. | 19.69 | 21.16 |  | 37.90 |  | 132.33 |  | 840.16 |  |
| Jiashu H.  Gigi L.  Alex L. | 17.56 | 23.65 |  | 48.59 |  | 119.2 |  | 237.6 |  |
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|  |  |  |  |  |  |  |  |  |  |

Table 2. Class data for varying temperature of HSO3- and IO3­- reaction. Time for reaction in seconds

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Group Members | 5 oC | 10 oC | 15 oC | 20 oC | 25 oC | 30 oC | 35 oC | 40 oC |
| Callum, Jamie |  | 54.33s |  | 40.78s |  | 35.32s |  | 28.56s |
| Nadia, Denis |  | 53.77 |  | 44.76 |  | 38.06 |  | 26.21 |
| Akshayan, Apollo, Christian |  | 50.35 |  | 41.61 |  | 32.86 |  | 32.63 |
| Edward Z  Matthew L  Leo C |  | 49.8 |  | 37.9 |  | 30.1 |  | 24.5 |
| Cyrus C  Adam A |  | 50.2s |  | 42.8s |  | 36.2s |  | 25.3s |
| Eyiya K  Jessa S  Kim S | 73.27 |  | 48.13 |  | 36.18 |  | 33.98 |  |
| Tawhid H.  Talha P. | 91.65 |  | 69.08 |  | 56.96 |  | 39.96 |  |
| Natalie H. Annita P. | 75.00 |  | 62.58 |  | 58.42 |  | 46.00 |  |
| Jiashu H.  Gigi L.  Alex L. | 56.3 |  | 50.68 |  | 45.26 |  | 35.56 |  |
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