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Graphing Exercise

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CHM1045 LAB

Graphing Exercise Figure 1

1. Introduction

To demonstrate how preparation hours affect a student’s GPA.

1. Procedures

Gather the amount of preparation hours of students and gather their GPA and compare the results.

1. Data/Results

Preparation (Hours) GPA (4.0 Scale)

12.3 0.082

24.6 0.592

36.9 1.102

49.2 1.612

61.5 2.122

73.8 2.632

1. Conclusion

The data shows that the more preparation done before or after class, the higher the GPA of the student.

Graphing Exercise Figure 2

1. Introduction

To show the relation of vapor pressure in mmHg and temperature in Celsius degrees.

1. Procedures

To gather vapor pressure and its temperature in Celsius.

1. Data/Results

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Vapor Pressure (mmHg) | Temperature (C) | Kelvin | Reciprocal | Vapor Pressure |
| 4.6 | 0 | 273.15 | 0 | 1.526056303 |
| 6.5 | 5 | 278.15 | 0.2 | 1.871802177 |
| 9.2 | 10 | 283.15 | 0.1 | 2.219203484 |
| 12.8 | 15 | 288.15 | 0.066666667 | 2.549445171 |
| 17.5 | 20 | 293.15 | 0.05 | 2.862200881 |
| 18.7 | 21 | 294.15 | 0.047619048 | 2.928523524 |
| 19.8 | 22 | 295.15 | 0.045454545 | 2.985681938 |
| 21.1 | 23 | 296.15 | 0.043478261 | 3.04927304 |
| 22.4 | 24 | 297.15 | 0.041666667 | 3.109060959 |
| 23.8 | 25 | 298.15 | 0.04 | 3.169685581 |
| 31.8 | 30 | 303.15 | 0.033333333 | 3.45946629 |
| 42.1 | 35 | 308.15 | 0.028571429 | 3.740047741 |
| 55.3 | 40 | 313.15 | 0.025 | 4.012772909 |
| 71.9 | 45 | 318.15 | 0.022222222 | 4.275276265 |
| 92.5 | 50 | 323.15 | 0.02 | 4.527208645 |
| 149.4 | 60 | 333.15 | 0.016666667 | 5.006627273 |
| 233.7 | 70 | 343.15 | 0.014285714 | 5.454038242 |
| 355.1 | 80 | 353.15 | 0.0125 | 5.87239944 |
| 525.8 | 90 | 363.15 | 0.011111111 | 6.264920912 |
| 760 | 100 | 373.15 | 0.01 | 6.633318433 |

1. Results

The results show that the more units of vapor the higher the temperature it is.