

1. Which of the climate models predict an increase in temperature from 2001 to 2100?
 - a. What is your experimental hypothesis for this question?
 - b. What is your
 - i. independent variable
 - ii. dependent variable
 - c. How should you represent the results graphically?
 - d. What kind of statistical test should you use for this data?
 - e. What are your statistical null hypothesis (H_0) and alternate hypothesis (H_A)?
 - f. Paste the graph you created for this question below. Make sure you include information about the line of best fit (i.e., slope, R^2) and the p-value.
 - g. Do you reject or fail to reject your null hypothesis?
 - h. Explain whether or not the results support your experimental hypothesis.
 - i. What conclusions can you draw based on your analysis?

2. Is the change in temperature predicted to vary with latitude in January and July?
 - a. What are your experimental hypotheses for this question? (You can have 2, one for January and one for July.)
 - b. What is your
 - i. independent variable
 - ii. dependent variable
 - c. How should you represent the results graphically?
 - d. What kind of statistical test should you use for this data?
 - e. What are your statistical null hypothesis (H_0) and alternate hypothesis (H_A)?
 - f. Paste the graph you created for this question below. Make sure you include information about the line of best fit (i.e., slope, R^2) and the p-value.
 - g. Do you reject or fail to reject your null hypothesis?
 - h. Explain whether or not the results support your experimental hypothesis.
 - i. What conclusions can you draw based on your analysis?