

Name:

Mr. Howard

Date:

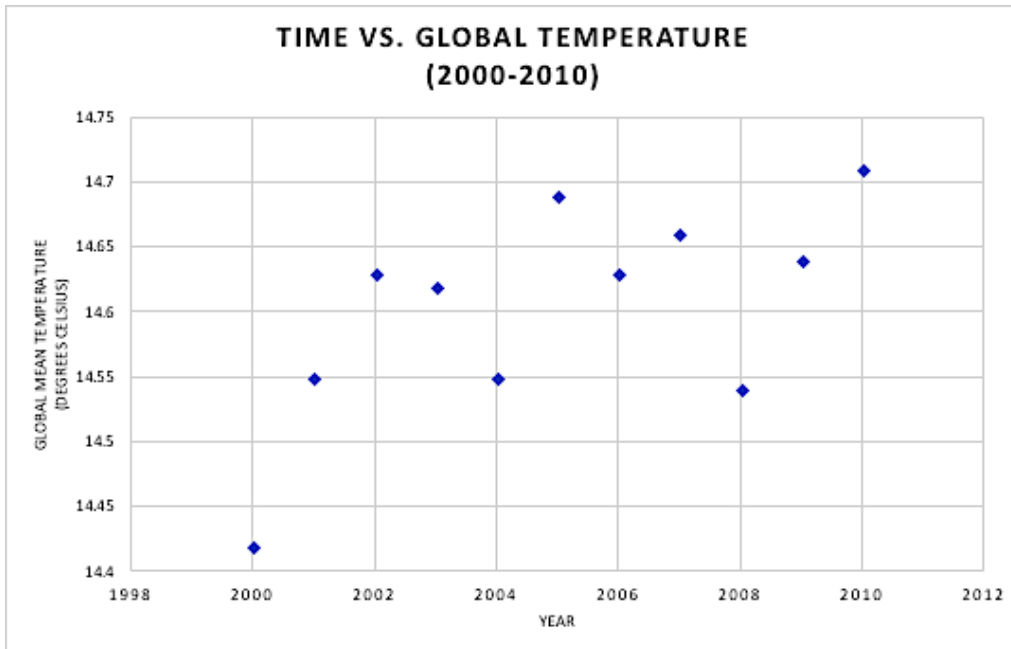
Physics I

Quiz: Climate Change

Your Score: ___ / 15

***Box all final answers.**

1.



a) Draw a line of best fit for the graph. (1pt)

b) Create a linear model starting in 2000. (1pt slope, 1pt y-intercept)

c) How much hotter will it be in the year 2120? (1pt answer, 1pt unit)

d) The ocean's volume is $1.3 \times 10^{18} \text{ m}^3$. Based off your prediction, what will be its change in volume by the year 2120? (1pt answer, 1pt unit)

2. How would the global warming effect of adding ninety-three tons of carbon dioxide compare to adding two tons of methane to the atmosphere? (1pt answer, 1pt explanation)

3. Draw the two options for light's behavior after it enters the atmosphere. Be sure to label what surface causes the behavior and what the behavior is. (1pt surfaces, 1pt behaviors)

4. Describe the 3-part feedback mechanism that occurs when ice melts. Use arrows to show the direction of causation (1pt arrows, 1pt steps).

5. What are the three major types of fossil fuels? (1pt)

6. What economic sector is the biggest global cause of greenhouse gas emissions? (1pt)