**Measles Vaccination Graphing Activity** /10 Name: \_\_\_\_\_\_\_\_\_

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| --- | --- | --- |
| **Year** | **Incidence of Measles** | **Percent Vaccinated** |
| 1980 | 4 211 431 | 13 |
| 1983 | 3 843 120 | 36 |
| 1986 | 2 375 248 | 60 |
| 1989 | 1 984 329 | 73 |
| 1992 | 1 499 898 | 80 |
| 1995 |  760 634 | 80 |
| 1998 |  694 466 | 80 |
| 2001 |  846 765 | 72 |
| 2004 |  509 734 | 85 |
| 2007 |  280 771 | 90 |

Skills: Graphing, Interpreting, Recognizing Patterns

**Question:** What is the relationship between vaccination and the incidence of measles?

1. Use pencil. One the grid below, place “**Year” on the x-axis**, starting with 1980, ending in 2007, evenly spaced.
2. Label the **Left** y-axis with “Incidence of Measles”, from 0 M to 5 M (5 squares = 1 M).
3. Label the **RIGHT** y-axis with “Percent Vaccinated”, from 0-100%.
4. Construct a **BAR graph** of the **Incidence of measles** for each given year.
5. Plot a **LINE graph** for **Percent Vaccinated** for each year. The dot goes right on your bar.
6. Include a **LEGEND** and a **TITLE.** (5pt)



**Analyze and Interpret**

1. **Compare the levels** of “Incidence” relative to the “Percentage” of people receiving vaccines each year.
2. Explain **WHY** you think this relationship exists. (1pt)
3. In British Columbia, it is recommended that infants and young children receive a measles vaccine. In several other provinces, measles vaccines are required for school entrance. However, ***exemptions*** (exceptions) are possible for medical or religious reasons. Write a short paragraph expressing your opinion about exemptions (people not having to get vaccinated). Consider how exemptions might affect public health. Please use complete sentences. (4pt)