Science homework task – December ( Graphs)

If I get stuck I can ask my teacher for help!

Please attempt all questions using the help guide you have been given. If you get stuck, please see your teacher for help before the deadline date.



Try a bar chart :

Level 4

1. A class sowed 1000 Geranium seeds and waited for two months. They noted the flower colours produced and the number of plants showing each colour. The results are presented in the table below.

|  |  |
| --- | --- |
| Flower colour | Number of plants |
| White | 150 |
| Pink | 220 |
| Red | 130 |
| Purple | 180 |
| Yellow | 70 |

a. What was the independent variable in this experiment?

b. What flower colour was the most common and which was least common?

c. Using all available information, how many seeds did not grow into mature Geranium plants?

d. Using graph paper (provided by your teacher) plot a **BAR CHART** of the information from the table.



**Try a line graph**:

Level 4

2. The growth rate of 10 white flowered Geranium plants was compared with that of 10 red flowered Geranium plants. Their increase in growth was measured every 10 days for 50 days and averaged. The results are shown below.

|  |  |  |
| --- | --- | --- |
| Time (days) | Average increase in growth for WHITE flowered plants (cm) | Average increase in growth for RED flowered plants (cm) |
| 10 | 4 | 2 |
| 20 | 6 | 3 |
| 30 | 11 | 6 |
| 40 | 14 | 9 |
| 50 | 16 | 12 |

a. State two factors that would need to be kept the same to make this comparison fair.

b. Using graph paper (provided by your teacher) plot a **LINE GRAPH** of the average growth of white flowered plants over the 50 days.

c. **On the same graph** add the data for the average growth of red flowered plants.