

ACID RAIN





How does it affect us?

- Acid rain **promotes** growth of some species while it **suppresses** others.
- It **reduces biodiversity** in the wild.
- Nitric acid “liberates” **toxic minerals** from the ground, consequently **poisoning** wildlife.



Our Investigation

- **Hypothesis:** *Do varying pHs affect seed germination in species of plants differently?*
- **IV:** Type of seed and Acid pH
- **DV:** Percentage Germination of seeds
- **CV:**
 - Same acid pH
 - Volume of acid solution
 - Watered same number of times
 - Kept at the same temperature
 - equal number of seeds



Method

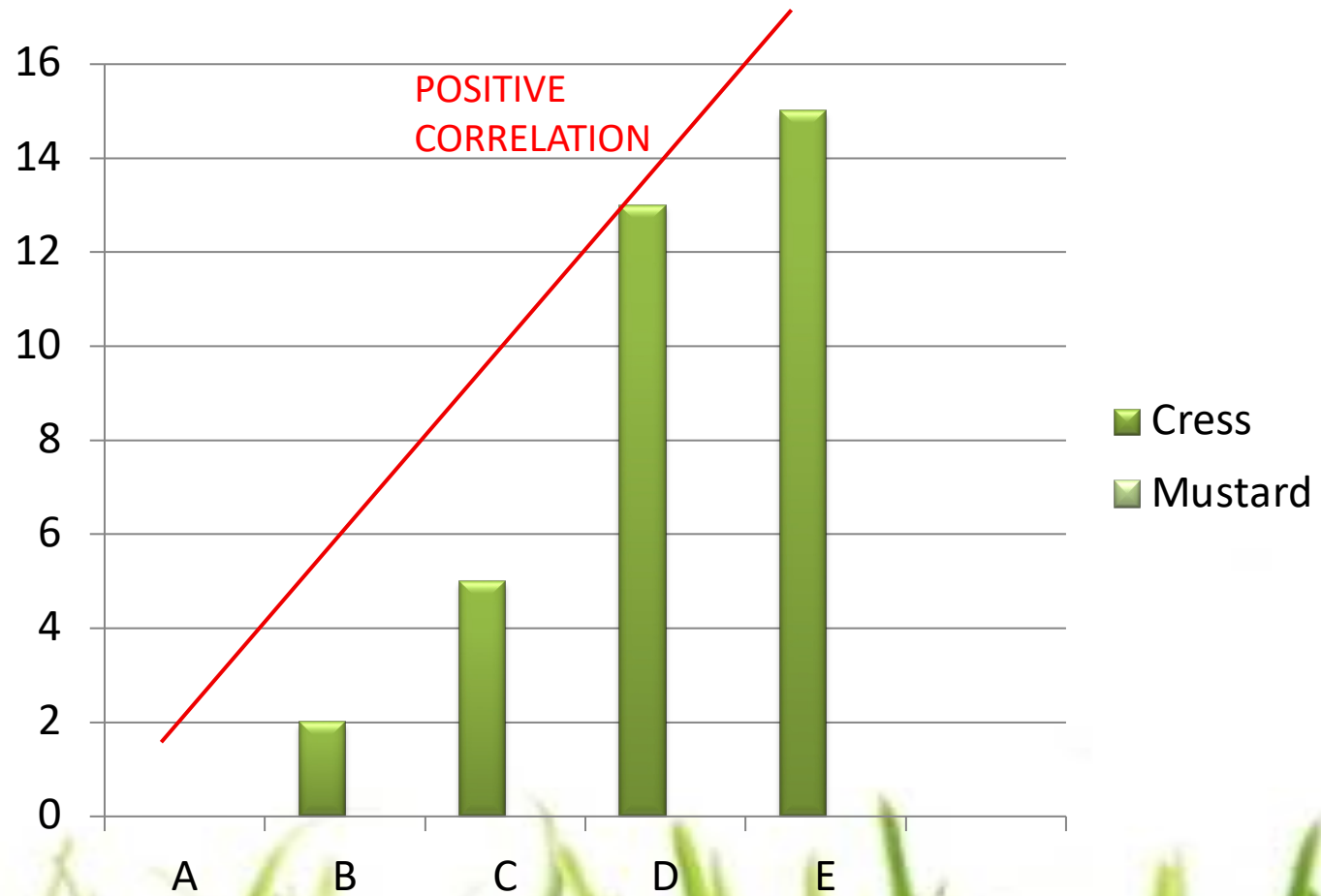


Results

| Petri-dish | Number of mustard seeds germinated | Number of cress seeds germinated |
|------------|------------------------------------|----------------------------------|
| A | 0 | 0 |
| B | 0 | 2 |
| C | 0 | 5 |
| D | 0 | 13 |
| E | 0 | 15 |



Analysis



Conclusion

- The assignment was to test if the seeds would germinate when watered with the different concentrations of pH in a solution.
- We then watered the Mustard and Cress seeds with these solutions in order to see with which solution the seeds germinated best.
- According to the hypothesis we wanted to see if *varying pHs affect seed germination in species of plants differently*. The results show that as the solutions had a higher pH, meaning they are more alkali, they germinated better.
- This shows that acidic solutions inhibit the germination of a seed and this confirms the hypothesis we had.
- The reason for why we saw no germination in the mustard seeds is that mustard seeds take longer to germinate.

