

## Evidence

Varying the

The independent variable was 1 water amount and the dependent variable was Seed germination. The results do not support the prediction because on average it only took 29.3 ml of water to germinate (on average) 7.5 seeds, not 64 ml of water for Period 1. Furthermore, the germination rate was not 100%, because on average 7.5 seeds germinated, not all 8.

For Science, Period 6, on average 31.7 milliliters of water was added, and 212 seeds of 224 germinated. For Science, Period 2, on average 29.3 milliliters of water was added, and 187 of 199 seeds germinated. For Science, Period 7, on average 30.4 milliliters of water was added, and 170 of 184 seeds germinated. For Science, Period 3, on average 31.5 milliliters of water was added, and 145 of 159 seeds germinated. For the Birch Team, on average 30.7 milliliters of water was added, and 714 of 766 seeds germinated. For the

## Reasoning

Bailey Team, on average 34.2 ml of water was added and 577 seeds of 730 germinated.

Having used 31.7 milliliters of water, Period 6 had the best average germination rate with 212 of 224 seeds germinating. Period 6 had 95 % of all seeds germinate.

The percentages of the germination rates for all classes on the Birch Team were the following: Period Two 94%; Period Seven, 92%; Period Three, 91%; Birch Team, 93%. The Bailey Team had a 79% germination rate.

The results were reliable, because a large sample study was used - the Birch Island Team and the Bailey Island Team, which include 192 students; approximately 1,536 seeds. The results are also reliable because various water amounts were averaged together as were the total number of seeds that germinated.

In conclusion, the right amount of water to germinate 7.6 seeds in six school days is 31.7 milliliters, because that is what happened in this experiment. The new prediction is if eight