



**CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY**

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| Name(s) Joseph S. Stearns | Project Number J2018 |
| Project Title Planaria Regeneration | |
| <p style="text-align: center;">Abstract</p> <p>Objectives/Goals The objective of my experiment was to determine if a magnetic field, and the intensity thereof, has an effect on the rate of regeneration of a planaria.</p> <p>Methods/Materials Three test groups of planaria were used, each consisting of three planaria cut laterally and placed in a separate, sterile Petri dish. One test group wasn't exposed to any magnetic field as a control, one test group was exposed to a magnetic field of two magnets, and one test group was exposed to the magnetic field of four magnets.</p> <p>Results I observed the groups three times and found that the weaker magnetic field of two magnets increased the rate of regeneration the most, though the magnetic field of four magnets also increased the rate of regeneration.</p> <p>Conclusions/Discussion My hypothesis was therefore incorrect. Further experiments could test what particular range of magnetic intensity on the gauss meter affects planaria the most.</p> | |
| Summary Statement Does a magnetic field, and the intensity thereof, have an effect on the regeneration rate of planaria. | |
| Help Received My mom helped me type and took some of the digital pictures of my experiment. | |