



**CALIFORNIA SCIENCE & ENGINEERING FAIR
2018 PROJECT SUMMARY**

Name(s) Taylor Ericksen; Madelyn Gilbert; Emily Turczak	Project Number J2303
Project Title How Magnet Strengths and Water Temperatures Affect the Regeneration of Planarian	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals The objective for this is to discover which temperature of water combined with which strength of magnet would increase the rate of regeneration in planarian.</p> <p>Methods/Materials Petri dish 35mm dia, brown planarian, magnets 3 different strengths, water 3 different temperatures, microscope, scalpel, and liver. Cut planarian into thirds and place in petri dish. Measure cut planarian regeneration over several days.</p> <p>Results During the 12 trials we compared the data of planarian regeneration for each petri dish. The room temperature water with the lowest strength magnet was shown to be the most effective.</p> <p>Conclusions/Discussion The conclusion of the room temperature water with the lowest strength magnet showed more effectiveness than any of the other trials. Therefore, the lowest strength magnet in room temperature water produced the best result.</p>	
Summary Statement We discovered the effects different magnet strengths and water temperatures have on planarian regeneration.	
Help Received Our Science Teacher Mrs. Shelby Little. Prof. Muller at California State University of planarian diets how different temperatures of water effect their growth and how they are able to regenerate. Prof. Ross at California State University.	