CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

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Name(s)	Project Number
Brodyjohn D. Stancliff	
Project Title	22572
Evaluating Filtration Options	6,2
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Objectives/Goals I did my project to draw a comparison between different aquarium filters availa first time aquarist wishing to start small. Methods/Materials I used 5 10-gallon tanks, each divided into two segments, to create 10 closed sy types of filtration, power filter, power filter/undergravel filter combination, un filter, and a control. Each tank also was equally lit, and had an equal amount of genus Macrobrachia were placed in each tank, and then the rf h_carbonate hadd ammonia concentration, and nitrite concentration were tester baily over a two-v Results The power filter tanks did well initially, but not in the rnd. The undergravel/po tanks and the undergravel filter alone tanks did likewise. The spenge alter tank of the experiment, and the control tanks quickly failed Conclusions/Discussion Surprisingly, the cheapest filter available, the spenge filter cartridges that need t weeks.	stoms. I used five different largravel filter, sponge gravel. Five shrimp of the ness, general hardness, week period. wer filter combination s did well for the duration When considering using a
Summary Statement My project tests different kinds of beginner's aquarium filters against each othe	r for initial effectiveness.
Help Received Father had materials industry contacts and design influences; Neptune's Reef tr contributed aquariums; Mr. Thomas Jett (science teacher) provided guidance	opical fish store