

## CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
Michelle Qin	Å
Project Title	35079
The Art of Praise	
Objectives/Goals Abstract	( )
This project is concerned with the question of how to effectively p	praise students for good performance to
make them better motivated, more confident, and more inclined to <b>Methods/Materials</b>	b tackin challenges.
A series of experiments with a group of 60 subjects ranging from	stude 6 to grade 10 was conducted on a
one-to-one basis. Subjects were randomly assigned to three groups corresponding to neutral feedback, process praise, and person praise. The experiments were composed of a math problem-solving,	
process praise, and person praise. The experiments were compose	ed of a math problem-solving,
puzzle-solving, recess (free choice), and self-attributions for failur <b>Results</b>	res period.
With math problem-solving tasks, 96% of the process praise sub-	cts referred more difficult tasks upon
successful completion of a task. In contrast, the person praise group	up had 39% and the group in neutral
With math problem-solving tasks, 96% of the process praise subjects preferred more difficult tasks upon successful completion of a task. In contrast, the person praise group had 39% and the group in neutral feedback had 46%. Similar results were found with puzzle-solving tasks: 92% for the process praise	
measures, the percentage of subjects who initially had disticulty in completing certain tasks but	
measures, the percentage of subjects who initially had difficulty in completing certain tasks but nonetheless kept trying was 62% for the process praise group, 10% for the person praise group, and 19% for the group in neutral feedback. At the end of the experiment, 75% of the process praise subjects had a growth mindset in relation to attributions for fallness, 28% for person praise group, and 38% for the group	
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$1 $ in neutral regulack. The regulate are conjust with regress to satisfying in task type and grade level. $\Delta$	
particular unique finding revealed that post-success preference for harder tasks is uniformly stronger with	
math problems than with puzzles across all grade levels. This is a strong indication of the pursuit for a	
particular unique finding revealed that post-success preference for harder tasks is uniformly stronger with math problems than with puzzles across all grade levels. This is a strong indication of the pursuit for a learning goal, because math problems offer better opportunities for increased learning than puzzles.	
U CONCIUSIONS/DISCUSSION	
Subjects having preferences for more difficult tasks post success concentrated on the process of their work	
and opportunities for learning provided by more difficult tasks. That is, subjects with such preferences pursue learning goals instead of performance goals. As a result, this project shows that process praise is	
most effective, which is robust across grade levels and task types.	
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Summary Statement	
My findages offer a support for the beliefs held by educators that praise for effort makes kids better	
motivated, more confident, and more inclined to tackle challenges.	
Help Received	
Mrs. Spracher at Monte Vista Elementary School generously supported and helped in obtaining	
permission, coordinating time, and arranging proper places for conducting the experiments; Professor	
Charness and Professor Vespa at UCSB offered helpful guidance during the early stage of this project.	