

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s)	Project Number
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Project Title	
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Abstract	
Objectives/Goals Abstract	
The objective is to find out why boiling water freezes faster than room temperature water.	
Meterials	
Two identical cups (that can at least hold a cup and a half of water): One measure	ring cup: One freezer set
to ; One stove; One pot to boil water in; One source of water; Two stopwatches for each cup; One data	
journal.	
Procedure Take your measuring cup and fill it until it is a cup full. Then pour the cup of water into your pot. Then	
put your pot on the stove. Turn on the stove. While you are waiting for the water to boil measure another	
cup of water and put it into one of your identical cups. Then set it down until the water boils. Once the	
water has boiled pour it into your other identical cup (make sure to burn your hands on the hot pot) (also	
make sure you get all of the water in the cup). Now put both of the cups in the freezer. Then start your	
off the cups has frozen stop the stopwatch and make sure to write down the time it took to freeze and if	
the water was boiled or not. Once both cups have frozen repeat the whole thing to confirm your results.	
Results	
The boiling water froze completely, first.	
L proved my hypothesis (that the room-temperature water would freeze first) wrong	
I proved my hypothesis (that the room temperature water would neede mist) wrong.	
Summary Statement	
I tested the Mpemba effect (the effect that states boiling water freezes faster than room temperature	
water), the cause for the phenomena, and how it relates to the Leidenfrost effec	t.
Help Received	
None. I did the project by myself.	