

CALIFORNIA STATE SCIENCE FAIR**2001 PROJECT SUMMARY****Your Name** (List all student names if multiple authors.)**AKEMI L. KAJIHARA****Science Fair Use Only****J1215****Project Title** (Limit: 120 characters. Those beyond 120 will be ignored. See pg. 9)**THE EFFECTS OF DIFFERENT TEMPERATURES IN GROWING FUNGI****Division****J Junior (6-8) J Senior (9-12)****Preferred Category** (See page 5 for descriptions.)**12 - Microbiology****Abstract** (Include Objective, Methods, Results, Conclusion. See samples on page 14.)

Use no attachments. Only text inside these boxes will be used for category assignment or given to your judges.

BY, WATCHING HOW FAST FUNGI GREW ON THE BREAD THAT WAS LEFT ON THE TABLE AND HOW SLOW IT GREW IN THE REFRIGERATOR, I DECIDED TO FIND OUT HOW THE DIFFERENT TEMPERATURES EFFECT THE GROWTH OF FUNGI. MY HYPOTHESIS IS THAT WARMER TEMPERATURES WILL CAUSE THE FUNGI TO GROW FASTER. FOR THIS EXPERIMENT I USED: 1) NON-PERSERVED WHEAT BREAD, CUTTING THREE 8CM X 8CM PIECES, 2) ADDING 1 GRAM OF BROWN SUGAR AND 1 TEASPOON OF WATER TO EACH OF THE PIECES OF BREAD EVENLY, 3) PLACING EACH OF THE PREPARED SAMPLES IN A SEPERATE PLASTIC SANDWICH BAG . ONE OF THE SAMPLES WHERE PLACED UNDER A LAMP AT 25.5*C, ONE AT 15.72*C IN ROOM TEMPERATURE, AND ONE IN THE REFRIGERATOR AT 3.94*C. EVERY WEEK A PICTURE WAS TAKEN ALONG WITH THE APPROPIRATE DATA. THE RESULTS OF THE EXPERIMENT WERE THAT THE WARMER TEMPERATURE DOES CAUSE THE FUNGI TO GROW FASTER. IN ORDER TO MAKE SURE A SECOND EXPERIMENT WAS TAKEN IN THE SAME MATTER AS THE FIRST ONE RESULTING IN THE SAME CONCLUSION THAT THE WAMER TEMPERATURE DOES INDEED CAUSE THE FUNGI TO DEVELOPE AT A FASTER RATE. THE EXPERIMENT IS IN CONTINUATION TO FURTHER PROVE MY HYPOTHESIS.

MY HYPOTHESIS

Summary Statement (In one sentence, state what your project is about.)**HOW THE DIFFERENT TEMPERATURES AFFECT THE GROWTH OF FUNGI****Help Received in Doing Project** (e.g. Mother helped type report; Neighbor helped wire board; Used lab equipment at university X under the supervision of Dr. Y; Participant in NSF Young Scholars Program) See Display Regulation #8 on page 4.**FATHER(TAKING PICTURES), PROJECT ADVISOR,(ADVISING ON HOW TO PREPARE FOR THE STATE SCIENCE FAIR).**