

CALIFORNIA STATE SCIENCE FAIR 2012 PROJECT SUMMARY

Name(s)	Project Number
Haripriya N. Bellam	J0903
Project Title	
The Crystal Radio	
Objectives/Goals Abstract	t
The objective of this science fair project is to build a si to see if it works without external power. If it does won length will affect its voltage, clarity and the number of Methods/Materials Materials:	mple crystal radio from scratch. Then experiment rk, to then experiment how the radio#s antenna stations it will play.
Cylindrical Kraft Tube, 4-in. diameter; Masking tape; I solid, plastic insulated, 22 gauge, 100 ft.; Steel wire, ga 1## x ##; Germanium diode; 47-komh resistor; Wood Ceramic earphone, high- impedance; Wire strippers; Pl Safety, ANSI Certified; Lab Notebook	Mounting board, wood, about 6 in. # 9 in.; Wire, alvanized, 20 gauge, 100 ft.; 2 PVC pipe couplings, screw, small; Alligator Clip, 2#, non-insulated; hilips head screwdriver; 4 fanestock clips; Glasses,
Method: First assemble the radio with the reference to the mode antenna and the ground connections and experiment us amps, clarity and the number of stations being played.	el of a crystal radio diagram. Then connect the sing various antenna lengths. Record the micro
In the end, my hypothesis proved to be correct and the experiment was conducted, once again my hypothesis antenna length, the better clarity, more number of static	radio worked without electricity. When the was correct and the was proven that the longer the ons.
My conclusion turned out that my hypothesis was corre- worked without electricity and that we could actually h	ect! The surprising thing was that the radio actually isten to many stations!
Summary Statement	
The crystal Radio is an unique device that uses no elec	tricity and is dependent on the antenna length.
Help Received	
My dad helped me with experimenting and building di	fficult parts of the apparatus.