

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
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	38190
Project Title	R 1
Effects of Various Materials on Wi-Fi Signal Speed	
Abstract	
Objectives/Goals Abstract	
The objective of this study is to determine which of the tested materials can speed of a Wi-Fi signal.	most efficiently increase the
Methods/Materials	
Wi-Fi router, parabolic reflector covered with various materials, scartphone the speed of a Wi-Fi signal when reflected by different materials	with speed test app. Tested
Results O V	V
Not any one material consistently showed the greatest increase in Wi-Frigr	al speed, though some
increased the speed more than others in certain spots. The speed of the signal material varies depending on distance from the router.	if when reflected by a certain
Conclusions/Discussion	
Repeated trials with multiple materials determined that my hypothesis was o aluminum did not always show the greatest increase in signal speed it is con	ncluded that the effectiveness
of materials when improving Wi-Fi signal speed is improved by the distance	from the router.
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Summary Statement	
I showed that the speed of a Wi-Fi signal can be improved when reflected by	y certain materials.
Help Received	11 1 1 1 1
While I completed most of this experiment myself, suggestions were provide English teacher and my parents helped me evaluate my choice of words in m	ed by my science teacher. My