

## CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
So-Jung An	
3	
	35663
Project Title	
Playing With Pencils: Comparing the Quantity of Graphene Created by	
Different Types of Graphite	
6	
Objectives/Goals Abstract	
The objective of this experiment was to determine which type of graphite is be	est for making graphene.
Methods/Materials	$(\bigcirc)$
I used the graphite 2B, 3B, 4B, 6B, 9B, and the magic green tape when creating	g the graphene. The pencil
leads each have a different mix ratio of graphite to clay. The harder pencils had darker pencils have more graphite. I then shaved each graphite stick. After I have	da sufficient amount of
powder for each type of graphite, I put a 2-inch piece of tape on the powder ar	nd made sure the sticky side
powder for each type of graphite, I put a 2-inch piece of the on the powder are of the tape was completely covered in graphite powder. Next, I used separate	pieces of tape to peel away
the layers of graphite. Finally, I tested the resistance of the graphere samples in Results	using a multimeter.
The graphene sample created with the 9B graphite had the least resistivity. The	e more clay in the mix ratio
of the graphite, the higher the resistivity level.	<b>.</b>
Conclusions/Discussion	
When creating graphene, we should be using the B graphite.	
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Summary Statement	
In my project, I seek to find the type of graphite people should use when creat	ing graphana
In my project, received find the type of grapinite people should use when creat	ing graphene.
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Help Received  No help received.	
Two neip received.	