

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
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Sara Newton; Alex won	
	22751
Project Title	
Science Friction	
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Abstract	
Objectives/Goals	
To determine if static and sliding friction is affected by surface texture and the Methods/Metorials	weight of an object.
Method	\bigcirc
Glue three different sandpaper textures onto painted wood, leave enace for painted	wood texture.
Drill three holes in wood block for weight placement.	
Attach Newton scale to 1.5N wood block. O	
Pull the scale across the four different textures to measure the static friction and	the sliding friction at a
speed that is moving at a constant rate which means it stays at the same speed e	very time.
Record the static and sliding friction onto a data table.	
Repeat steps 1-3 with 2.0N and 2.5N wood blocks.	
Materials	
Painted wood	
Fine sandpaper	
Medium sandpaper	
Rough sandpaper	
Wood block	
3.5N weights	
I wo Newton scales	
Results	
2.5 Newton sliding body weight had the greatest faction, 2.0 Newton body slid	ing body weight had the
secnd greatest friction, and 1.5 Newton sliding body weight had the least amount of friction.	
Rough sand paper had the greatest triction meanum sandpaper had the second g	greatest friction, fine
sandpaper had the third greatest friction, and painted wood had the least amoun	t of friction.
Conclusions/Discussion	
We came to the conclusion that our the surface texture the object slides across a that is gliding agreed that is a straight we also discuss that is gliding and static friction. We also discuss that is gliding and static friction.	and the weight of the object
that is shoring across the sonace affects shoring and static inclion. We also disco	paper more than any other
texture change this could be because the fine sandpaper is a lot rougher than the	paper more than any other
Summary Statement	te punited wood und the
It's about finding if surface texture and the weight of an object affects static and	sliding friction
It's about human invertice texture and the weight of an object affects state and	shamg meton.
Help Received	
Parent helped assemble lab set up.	