

Name(s)	Project Number
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Project Title	
Impact Absorption	
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Objectives/Goals Abstract (S	
My objective was to determine which packaging material absorbs the most imp	act. My hypothesis was
nat the packaging peanuts would do the best because they are soft, here and pockets in them	don't have many air
Methods/Materials	$\checkmark$
Using a 4" PVC pipe, I drilled a hole that marked the fist 12 inches and then co	ntinued to drill holes every
2 inches above the initial 12 inch mark, until reaching 48 inches. I placed an es	g at the bottom of the pipe
in a viewing tee and I put 8 inches of material above the egg rine dropped a intervals above the material until the egg broke. I did the everythent three time	2 pound weight in 2 inch
then averaged the scores. Materials used: 4" PVC pipe (5'long), PVC tee 2 por	and weight (bar bell)
string, duct tape, nail, drill, eggs, packaging peanuts, babble wrap, cotton balls,	newspaper, ladder bungee
cord, swimming noodle, Sharpie pen, plastic wrap, paper plate, journal and pen	cil.
Results The results showed that the hubble wrap and packaging paputs of the best, w	ith both averaging a 23
inch drop before breaking the egg. The cotton balls did the boorest, breaking the	the egg with only 16 inches
of drop and the newspaper averaged only slightly better at $\nabla$ inches.	
Conclusions/Discussion	
My results show that the packaging peanute field with the broble wrap for being impact. My hypothesis was close to accurate but not completely supported by	the best to absorb the
iust as well and was actually more consistent. My results enabled me to meet n	av objective to determine
the best absorbing material.	
$\left( \sum_{i=1}^{n} \right)$	
Summary Statement	
Determine which packaging material will absorb the most impact.	
Help Received	
Mother helped me correct mistakes and taught me how to make a graph. Fathe	r tied the string to the
weight, helped me drill the holes in the pipe and put a nail in the hole so I woul	d know where to drop the
weight.	