Melting Ice Challenge Day ONE

Name _____ **Class #** _____ **Class Period** _____

Your job as an engineer in Cedar City is to design a method for melting ice the fastest way possible! Using the building materials below design a contraption that will melt ice AND allow you to watch as the ice melts ☺ You will be allocated $100 in budget money and will only be ALLOWED ONE TRIP TO THE "STORE". You should PLAN CAREFULLY!!

Draw your engineering project and LABEL all pieces used in the project:

Your Budget for the project is $100

Cost of Goods:

Item	Cost	Purchased	Total
Tape-1 meter	$20		$
Poster Board 6x6	$25		$
Cotton Balls-5	$20		$
Aluminum Foil 6x6	$25		$
Wax Paper 6x6	$15		$
Ziploc Baggie - 1	$5		$
Popsicle Stick - 1	$10		$
Paper-1 Sheet	$10		$
	$10		$
Cork 4x4	$35		$
Mylar 4x4	$30		$
		Total of Goods	$

1. Mass of Ice Cube BEFORE Protection _____g
2. Length of Time to Melt Ice Cube: _____ Minute(s) _____ Seconds
3. Based on your results, what do you think went well with your project and what do you think went wrong?

Melting Ice Challenge Day TWO

Name _____ **Class #** _____ **Class Period** _____

You have contracted for a SECOND build! As a group evaluate your findings from Day One and re-build your contraption. Today is important in your building process because the fastest time today will earn a reward!! You will be allocated $100 in budget money and will only be ALLOWED ONE TRIP TO THE "STORE". You should PLAN CAREFULLY!!

Draw your engineering project and LABEL all pieces used in the project:

Your Budget for the project is $100

Cost of Goods:

Item	Cost	Purchased	Total
Tape-1 meter	$20		$
Poster Board 6x6	$25		$
Cotton Balls-5	$20		$
Aluminum Foil 6x6	$25		$
Wax Paper 6x6	$15		$
Ziploc Baggie - 1	$5		$
Popsicle Stick - 1	$10		$
Paper-1 Sheet	$10		$
	$10		$
Cork 4x4	$35		$
Mylar 4x4	$30		$
		Total of Goods	$

1. Mass of Ice Cube BEFORE Protection _____g
2. Length of Time to Melt Ice Cube: _____ Minute(s) _____ Seconds
3. What did you discover was the biggest change in your building process AND how did that affect your ice cubes melting time?