NAME: DATE:			
LAB REPORT - GOODY GOODY GUMDROPS 2012 VERSION			
OBJECTIVES: USE A SIMPLE MODEL TO ANALYZE AND EXPLAIN PHENOMENA DESIGN, ENGINEER, & CONSTRUCT MINERAL MODELS	GRADE (OUT OF 6):		
MATERIALS: GUMDROPS, TOOTHPICKS, THOUGHT INTRODUCTION: MINERALS ARE NATURALLY OCCURRING, INORGANIC SOLIDS WHICH HAVE A DEFINITE CHEMICAL COMPOSITION AND CRYSTAL SHAPE. A MINERAL'S PHY (HARDNESS, BREAKING PATTERN, CRYSTAL SHAPE) IS DETERMINED BY ITS INTERNAL ARRANGE MINERALS ARE THE BUILDING BLOCKS OF ROCKS AND OF GREAT VALUE ECONOMICALLY.			
PROCEDURE: Take a look at the first subunit below. It is a cube. Using your materials, construct two of these subunits (two connecting cubes). Draw your complete structure below and list the number of toothpicks and gumdrops used to create it.			
	TOOTHPICKS: GUMDROPS: STRENGTH:		
Now, take a look at the second subunit below. It is a four-sided tetrahedro materials, construct five connected subunits (each with a base on the table). Drabelow ad list the number of toothpicks and gumdrops used to create it.			

TOOTHPICKS:

GUMDROPS:

STRENGTH:

BRAINSTORM WITH YOUR TEAM AND DEVELOP YOUR OWN UNIQUE SUBUNIT. IN YOUR FINAL MODEL, THERE MUST BE AT LEAST TWO CONNECTED SUBUNITS PRESENT. DRAW THE STRUCTURE BELOW AND LIST THE NUMBER OF TOOTHPICKS AND GUMDROPS USED TO CREATE IT.		
		Гоотнріскѕ:
		GUMDROPS:
		STRENGTH:
SUMMARY QUESTIONS:		
(1)	As a model of a mineral, what did the (1) gumdrops and (2) toothpicks repres	SENT?
(2)	DESCRIBE THE RESULTS OF YOUR STRENGTH TESTS. BE THOROUGH AND INCLUDE DATA. V	VHICH OF THE
	SUBUNITS IS THE STRONGEST?	
(3)	GIVE A POSSIBLE EXPLANATION FOR YOUR RESULTS.	
(4)	IF BOTH GRAPHITE AND DIAMOND ARE PURE CARBON, WHY ARE THEY SO DIFFERENT?	
(5)	BASED ON EVERYTHING YOU HAVE LEARNED ABOUT MINERALS HERE, WRITE THE LYRICS FO	
	OR THREE LINES OF A SONG TO SHOW WHAT YOU'VE LEARNED. RHYMING ENCOURAGED	