

NAME: _____

DATE: _____

LAB REPORT - GOODY GOODY GUMDROPS

2012 VERSION

OBJECTIVES: USE A SIMPLE MODEL TO ANALYZE AND EXPLAIN PHENOMENA
DESIGN, ENGINEER, & CONSTRUCT MINERAL MODELS

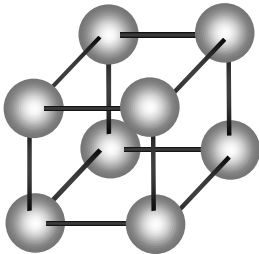
GRADE (OUT OF 6):

MATERIALS: GUMDROPS, TOOTHPICKS, THOUGHT

INTRODUCTION: MINERALS ARE NATURALLY OCCURRING, INORGANIC SOLIDS WHICH HAVE A DEFINITE CHEMICAL COMPOSITION AND CRYSTAL SHAPE. A MINERAL'S PHYSICAL PROPERTIES (HARDNESS, BREAKING PATTERN, CRYSTAL SHAPE) IS DETERMINED BY ITS INTERNAL ARRANGEMENT OF ATOMS. 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.

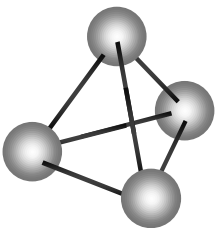


TOOTHPICKS:

GUMDROPS:

STRENGTH:

NOW, TAKE A LOOK AT THE SECOND SUBUNIT BELOW. IT IS A FOUR-SIDED TETRAHEDRON. USING YOUR MATERIALS, CONSTRUCT FIVE CONNECTED SUBUNITS (EACH WITH A BASE ON THE TABLE). DRAW THIS STRUCTURE BELOW AND LIST THE NUMBER OF TOOTHPICKS AND GUMDROPS USED TO CREATE IT.



TOOTHPICKS:

GUMDROPS:

STRENGTH:

