TAXONOMY and CLASSIFICATION TEST REVIEW

DEFINE THE FOLLOWING TERMS:

**TAXONOMY** –

**SPECIES** -

WHAT TWO LEVELS OF TAXA MAKE UP AN ORGANISM'S SCIENTIFIC NAME?

CIRCLE THE FOLLOWING SCIENTIFIC NAMES THAT ARE WRITTEN CORRECTLY; CORRECT THOSE THAT ARE WRITTEN INCORRECTLY. THEN DRAW A LINE CONNECTING THE PAIRS THAT ARE MOST CLOSELY RELATED TO ONE ANOTHER.

Canis Lupus  Canis familiaris  Ursus maritimus

panthera Leo  Ursus arctos  panthera tigris


WHICH KINGDOM(S) INCLUDE ORGANISMS WITH CELLS THAT DO NOT HAVE A NUCLEUS?

WHAT KINGDOM(S) HAVE ORGANISMS WITH THE FOLLOWING CHARACTERISTICS: **EUKARYOTIC** WITH **CELL WALLS MADE OF CHITIN**? ARE THESE ORGANISMS AUTOTROPHIC OR HETEROTROPHIC?

WHAT KINGDOM(S) HAVE ORGANISMS WITH THE FOLLOWING CHARACTERISTICS: **UNICELLULAR**, **WITH A NUCLEUS**, AND **USES SUNLIGHT TO MAKE ENERGY**? IF THIS ORGANISM HAS A **CELL WALL** WHAT COMPONENT DOES IT CONTAIN?
WHAT KINGDOM(S) HAVE ORGANISMS WITH THE FOLLOWING CHARACTERISTICS: NO CELL WALL AND MULTICELLULAR? DO THESE ORGANISMS HAVE CELLS WITH OR WITHOUT A NUCLEUS?

WHAT KINGDOM(S) HAVE ORGANISMS WITH THE FOLLOWING CHARACTERISTICS: MULTICELLULAR, HETEROTROPHIC, WITH A CELL WALL? ARE THESE ORGANISMS PROKARYOTES OR EUKARYOTES?

USE THE FOLLOWING DIAGRAM TO ANSWER THE QUESTIONS BELOW. ACCORDING TO THE CHART . . .

WHAT FAMILY IS MOST CLOSELY RELATED TO THE FAMILY CANIDAE?

WHAT IS THE SCIENTIFIC NAME OF THE ORGANISM THAT IS DOMESTICATED WITH RETRACTABLE CLAWS AND IS LAND DWELLING? DOES THE ORGANISM USE SCENT GLANDS FOR DEFENSE OR NOT FOR DEFENSE?

WHAT IS THE ABOVE ORGANISM’S CLOSEST RELATIVE ON THIS DIAGRAM (USE SCIENTIFIC NAME)?

WHAT ARE 2 CHARACTERISTICS DO MEMBERS OF THE FAMILY ODOBENIDAE HAVE?

WHAT IS ONE DIFFERENCE BETWEEN MEMBERS OF THE FAMILY CANIDAE AND THE FAMILY URSIDAE?

SHORT ANSWERS.
CIRCLE THE 2 FACTORS THAT GO INTO DETERMINING THE CLASSIFICATIONS OF ORGANISMS?

COLOR SIMILARITIES  PHYSICAL SIMILARITIES  DATE DISCOVERED SIMILARITIES  TASTE SIMILARITIES
SMELL SIMILARITIES  GENETIC SIMILARITIES  SIZE SIMILARITIES

WHY DO SCIENTIST USE SCIENTIFIC NAMES INSTEAD OF COMMON NAMES WHEN NAMING ORGANISMS?

HOW DOES CLASSIFYING LIVING THINGS MAKE ORGANISMS EASIER TO STUDY?