

BIOLOGY(Master)

Teacher: Michael Kietzman

Content	Skills	Assessment
A. Introduction to Biology -branches of biology -scientific method -microscopes	A. Introduction to Biology A1.define the major branches of biology A2.explain seven steps of scientific method A3.identify parts and functions of microscopes, apply during use of scopes in lab	A. Introduction to Biology A1.worksheet, multiple choice quiz, multiple choice test. A2.worksheet, short answer test A3.demonstrate ability to use during labs, identify and label worksheet, short answer test, true/false test
A. Characteristics of Living Things -spontaneous generation and biogenesis -characteristics of life -cell theory B. Classes of Organic Compounds -carbohydrates -lipids -proteins	A. Characteristics of Living Things A1.explain differences between the two theories and describe experiments of Redi, Newlands, Spallanzani, and Pasteur A2.identify ten characteristics of living things A3.restate the three points of the cell theory and identify contributions of biologists to its development B. Classes of Organic Compounds B1.identify examples of monosaccharides,disaccharides, and polysaccharides and their uses in living organisms, and describe their formation B2.identify differences between fats, oils, and waxes and their uses and formation B3.describe how amino acids form proteins, and identify differences between structural proteins and enzymes and their uses	A. Characteristics of Living Things A1.worksheets,text questions,matching test, short answer test. A2.worksheet, text questions, matching and multiple choice test. A3.worksheet, text questions, multiple choice test , short answer test. B. Classes of Organic Compounds B1.,B2.,B3.worksheet, text questions,lab questions,matching quiz, multiple choice quiz.
C. Cell Structures and Functions -nucleus -organelles -cell membrane -plant vs. animal cells	C. Cell Structures and Functions C1.explain the importance of the nucleus to a cell and compare the differences between prokaryotic cells and eukaryotic cells C2.locate structures of and state functions	C. Cell Structures and Functions C1.,C2.,C3.,C4. worksheets, microscope lab questions and drawings, text questions,matching quiz, matching test, multiple choice test, completion quiz, completion test, short answer test.