Grade Level:	6 th , 7 th or 8th
Class Title:	Middle School Life Science
Subject:	Science
Class	Students in middle school develop understanding of a wide range of topics in Life science that build upon science concepts from elementary school. Students will cover the sections of From Molecules to Organisms: Structures and Processes, Ecosystems: Interactions, Energy, Dynamics, Heredity: Inheritance and Variation of Traits, and Biological Evolution: Unity and Diversity.
Description:	This class will work toward one or more Next Generation Science Standards. This will be a year-long class, spanning the 2022-2023 school year.
	The estimated instructional hours for this class areper week. State Cedars Code: 03239 This remote class is overseen by Julie Rheinschmidt.
Learning	List all materials.
Materials:	
Learning Goals/ Performance Objectives:	 LS1.A: Structure and Function All living things are made up of cells, which is the smallest unit that can be said to be alive. An organism may consist of one single cell (unicellular) or many different numbers and types of cells (multicellular). (MS-LS1-1) Within cells, special structures are responsible for particular functions, and the cell membrane forms the boundary that controls what enters and leaves the cell. (MS-LS1-2) In multicellular organisms, the body is a system of multiple interacting subsystems. These subsystems are groups of cells that work together to form tissues and organs that are specialized for particular body functions. (MS-LS1-3) LS1.B: Growth and Development of Organisms Animals engage in characteristic behaviors that increase the odds of reproduction. (MS-LS1-4) Plants reproduce in a variety of ways, sometimes depending on animal behavior and specialized features for reproduction. (MS-LS1-4) Genetic factors as well as local conditions affect the growth of the adult plant. (MS-LS1-5) LS1.D: Information Processing Each sense receptor responds to different inputs (electromagnetic, mechanical, chemical), transmitting them as signals that travel along nerve cells to the brain. The signals are then processed in the brain, resulting in immediate behaviors or memories. (MS-LS1-8) ETS1.B: Developing Possible Solutions There are systematic processes for evaluating solutions with respect to how well they meet the criteria and constraints of a problem. (secondary to MS-LS2-5) LS3.A: Inheritance of Traits Genes are located in the chromosomes of cells, with each chromosome pair containing two variants of each of many distinct genes. Each distinct gene chiefly controls the production of specific proteins, which can affect the structures and functions of the organism and thereby change traits. (MS-LS3-1) LS3.B: Variation of Traits In sexually reproducing organisms, eac
	reviewed this WSLP. This is just a sample of learning goals. Other learning goals are available to view by going to OSPI's website. <u>https://www.k12.wa.us/student-success/learning-standards-instructional-materials</u>
	success commission and actional materials
Learning	The student will read for 60 minutes for information on a topic each week

Activities:	The student will follow a multistep procedure(CCS) and participate in conducting one experiment each week
	The student will complete one presentation and share conclusions about a project each month
	The student will gather information from multiple sources and cite specific evidence project including technical information displayed in a flowchart, diagram, model, graph, or table when appropriate (CCS) to complete a short research project each month The student will completepages per week/month in Science workbook The student will compare and contrast two objects (using a Venn diagram) each month The student will draw or label a diagram each month The student will keep a list of vocabulary words for the topic of study each month
	The student will keep a portfolio of weekly work samples and any written assessments
Progress Criteria/	to present to consultant at face-to-face meetings each month. Monthly assessments will be completed by the consultant/certified teacher. Monthly Progress will be marked satisfactory or unsatisfactory based on the professional judgment of the certified teacher using parent input, work samples, and monthly assessments.
Methods of Evaluation:	The listed activities will be reviewed each month between the certified teacher/consultant, parent and student. Student's work will be determined satisfactory when the student shows consultant evidence of at least one graded activity each month and one graded extension every three months. Each month the consultant/teacher will use his/her professional judgment to determine if the student will master the objectives by the end of the course.