2010-2011 MONTHLY 4-H LESSON SCHEDULE

LESSON TOPIC	MONTH OF TOPIC	Grade-Level (4^{th}-12^{th}) Expectations
WHIRLING WINDS 	**OCTOBER –** **Students will gain an awareness of the causes, conditions, preparations, warning signs and procedures for tornado watches and warnings.**	**SI-M-A3:** using mathematics and appropriate tools & techniques to gather, analyze, and interpret data. **SI-M-A6:** comparing alternative explanations and predictions. **PS-E-B4:** investigating & describing how the motion of an object is related to the strength of the force and the mass of the object. **ESS-E-A4:** investigating, observing, measuring, and describing changes in daily weather patterns and phenomena. **G-ID-E3:** describing the locations, causes, and effects of natural disasters on the environment and society. **G-ID-M4:** identifying problems that relate to contemporary geographic issues and researching possible solutions.
H_2O OH! 	**NOVEMBER –** **Students will identify types and effects of water pollution, understanding human involvement in pollution.**	**SE-E-A3:** identifying ways in which humans have altered their environment, both in positive & negative ways, either for themselves or for other living things. **SE-M-AI:** demonstrating knowledge that an ecosystem includes living & nonliving factors and that humans are an integral part of ecosystems. **SE-M-A3:** defining the concept of pollutant & describing the effects of various Pollutants on ecosystems. **SE-M-A4:** Understanding that human actions can create risks and consequences In the environment. **LS-M-C4:** explaining the interaction and interdependence of nonliving & nonliving Components within ecosystems.
THE HUMAN COMPUTER 	**DECEMBER –** **Students will become aware of the basic functions of the human brain and the importance of protecting it from injury.**	**HEALTH STANDARD 1:** Participants will comprehend concepts & strategies related to health promotion & disease prevention. **HEALTH STANDARD 3:** Participants will demonstrate the ability to practice positive health behaviors and reduce health risks. **HEALTH STANDARD 4:** Participants will analyze the impact of the media, technology, economy, and other factors on health through the use of technological resources. **HEALTH STANDARD 6:** Participants will demonstrate the ability to advocate personal, family, and community health. **ENGLISH LANGUAGE ARTS STANDARD 7:** Participants apply reasoning and problem-solving skills to their reading, writing, speaking, listening, viewing & visual representing.
CAPTIVATING CAVES 	**JANUARY–** **Students will understand the types of caves, history of formation, underground life forms and the food chain.**	**ELA-I-MI:** Using knowledge of word meaning and developing basic & technical vocabulary using various strategies (for example, context clues, affixes, etymology, dictionary) **G-IA-EI:** Identifying and describing the characteristics & uses of geographic representations such as various types of maps, globes, graphs, diagrams, photographs and satellite-produced images. **G-IB-EI:** Describing and comparing the physical characteristics of places, including land forms, bodies of water, soils, vegetation & climate. **G-IC-EI:** Des cribbing how physical processes help to shape features & patterns on Earth's surface. **SI-E-A3:** Communicating that observations are made with one's senses. **SI-E-B4:** Developing explanations by using observations and experiments.
MAD ABOUT METEOROLOGY – CLOUD CONNECTIONS 	**FEBRUARY –** **Students will become aware of weather and cloud terminology, gaining the ability to observe & classify types of clouds, identifying components required for a cloud to form, recognizing effects of clouds on weather patterns.**	**ESS-M-A10:** Explaining (illustrating) how water circulates – on and through the crust, in the oceans, and in the atmosphere – in the water cycle. **ESS-MI-AII:** Understanding that the atmosphere interacts with the hydrosphere to affect weather and climate conditions. **SI-E-A2:** Planning and/or designing and conducting a scientific investigation. **SI-E-B6:** Reviewing and asking questions about the results of investigations.
A-OK AIR 	**MARCH –** **Students will become aware of the causes, effects, and ways to prevent air pollution.**	**SE-E-A3:** identify ways in which humans have altered their environment, both in positive and negative ways, either for themselves or for other living things. **SE-E-A5:** understanding that most plant and animal species are threatened or endangered today due to habitat loss or change. **SE-M-A3:** defining the concept of pollutant and describing the effects of various pollutants on ecosystems. **SE-M-A4:** understanding that human actions can create risks and consequences in the environment.
NO LESSON DUE TO LEAP TESTING!	**APRIL -**	**NO LESSON DUE TO LEAP TESTING!!!**