Plant Science

(Grades 5-6)

Plant Life

State Standards	To meet Standard 6.4 Students need to recognize that plants and animals obtain energy in different ways, and they can describe some of the internal structures of organisms related to this function. They examine the similarities and differences between humans and other species. Standard 6.4.10 will also be addressed. The students will be asked to describe how life on earth depends on energy from the sun.
Objectives	The purpose of this lesson is to help students understand the resources plants need to survive, such as the correct amount of sun and water. This lesson should help students see the relation between human life and plant life. • Following these lesson students will be able to examine the growth process of the plants they planted. • Students will be able to complete a chart with the data they received from the growth process of the plant. • Students will understand the necessary needs of plants to grow successfully. **This activity should take about 60 minutes to complete.**
Teacher Preparation	• Make sure that the projector is ready for use. • Have the "TwitVid" video prepared and ready to show the class of students. • Get all materials to teach the lesson ready and divided into groups for the students.
Materials	• Two clear plastic cups for each group of four students • Two different types of seeds flowers • Bag of potted soil
Procedure	1. Begin by telling students that they will be planting their own flowers today, so that they can monitor their growth process in a data table. 2. Show students the four minute Discovery Channel Planet Earth- "Twitvid" video. (http://www.twitvid.com/OD8Q3) Tell students to pay attention to which plants grow when the sun is present and which tend to grow in darker areas. 3. After the video is done ask the students what they noticed about the plants throughout the video? Ask them what they think that the plants need to grow and prosper? Ask the students if they think that they are like these plants in any way? 4. After discussing the video move on to the in class group activity. Divide the students into groups of four and give them the materials they will need to complete the experiment. 5. Before the students begin the project give them step by step instruction.

	Then the students will plant two different types of seeds in each cup. 6. The students will place these cups in the window seal of the classroom. For two weeks students will monitor the growth of these two plants and record their data in a chart provided by the teacher. 7. After two weeks students will evaluate the data they observed of the plant growth. Discussing why one plant grew more than the other and so on.
Evaluation	After students have watched the video and planted their plants they will each be given a three point quiz. Ask the students these three questions: • What does a plant require to grow on a daily basis? • How tall do you predict your plant will grow in two weeks? • How do you think you and your plant are alike?