Teacher(s): T. Opalek/ G. Piñero-Amaro/ L. Buquet/ A. Cook/ L. / Katy
Grade(s): Elementary levels
Subject(s): Science/ Reading
Title of Lesson: Effect of Climate Change of Trees

Learning Objectives:
-to compare the natural life cycles of the tree
-what happens to the tree under climate changes condition

Standards Addressed (if applicable):
-lifecycles standards for kinder through fifth grade
(For example: SC.3.N.1.6 Infer based on observation)
SC.3.L.14.2 Plants response to simulate (heat, light, gravity, interdependence)

Lesson Outline:
-talk about trees
-open discussions
-show pictures of the different parts of the tree life cycle
-read the book: The Grand Old Tree, by Mary DePalm and The Great Kapok Tree
Learning Strategies:
- flow chart
- paper slider through flig grid, using computers

Science Concept(s):
- access prior knowledge
- life cycles
- chart of the tree (text features)
- discussion on greening (orange disease)

Humanities Concept(s):
- our responsibilities as citizens being part of the environment
- global citizenship of junior scientists
- hope/future (find a biography)

Technique(s)/Resource(s) Incorporated from Teaching Florida’s Climates Workshop:
- a variable of the Venn Diagram
- snapchat (with 3x5 card)- (from science fiction presentation)

Student Assessment Strategies:
- final video showing pictures/drawings/sentences about the effect of the climate change in a tree
- students will draw a diagram of a tree’s life cycle from seed to reproduction
- service learning project (short version)
- picture of a tree before/after

Benefit to my students:
- to show to others how to take good care of a tree in their houses (becoming caretakers)
- start a conversation with others/share their knowledge
Resources and Materials (supplies needed for activities):
- chrome books
- Books The Grand Old Tree, Kapok Tree
- paper
- markers
- 3x5 index cards
- preprinted Venn Diagram and flow charts
We know that it’s not always possible to develop and implement a brand new lesson plan in a busy curriculum. How do you envision incorporating our experiences in your classroom teaching?

Idea 1

The effect of climate change on trees

Learning Goals/Standards

-To compare the natural life cycle of the tree
-What happens to the tree under climate change conditions

Idea 2

-Experience through a book the “feelings” of a tree

Learning Goals/Standards

-Read “The Great Kapok Tree” and ask questions about what feels the main character comparing to the tree’s feeling

Idea 3
Learning Goals/Standards
Idea 4

Learning Goals/Standards

Idea 5

Learning Goals/Standards

Idea 6

Learning Goals/Standards

What additional resources do you need in order to act on these ideas?