Teacher(s): Tamara Opalek
Grade(s): Elementary levels
Subject(s): Science/ Reading
Title of Lesson: Effect of Climate Change of Trees

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

Standards Addressed (if applicable):
- life cycle standards for kinder through fifth grade
  (for example: SC.3.N.1.6 Infer based observation)
  SC.3.L.14.2 Plants respond to stimuli (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
-The Great Kapok Tree

Learning Strategies:
-flow chart
-paper slides through flig grid using computers

Science Concept(s):
-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 and junior scientists
-hope/future (find a biography)

Technique(s)/Resource(s) Incorporated from Teaching Florida’s Climates Workshop:
-a variable of the venn diagram
-snapcat (with 3x5 card)

Student Assessment Strategies:
-final video showing pictures/drawings/sentences about the effect of 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 and 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

Learning Goals/Standards

Idea 2

Learning Goals/Standards

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?