First Grade MASTER Model
AG-SEEDLINGS UNIT

Leading Scientific Question

As our enviromment changes, how are humans, animals, and plants able to adapt?

Scientific Sub-question

Where does our food come from and the process from farm to table.

- What is harvesting? What careers focus on harvesting food?
- How do people distribute produce like apples?

Lesson- From Bee to Pie

- Read a-loud, "How to Grow an Apple Pie" by Beth Charles.
- Discussion on how apples grow and where they come from.
- Students will watch short video clip on Pennsylvannia Apple Orchards.
- Students will use measuring and fractions to follow Apple Pie Cup Recipe. Students complete guided worksheet.
- Extension Activity: teacher can take students to a apple orchard or guide students through a virtural tour.

Scientific Sub-question

How do humans design and mimicking animals to help them survive, grow, and meet our needs?

- What is migration and how are Monarch Butterflies able to travel so far?
- What have humans learned from butterfly wings and other animal external structures?

Lesson- Shape of Wings

- Students will use the reading passage on Monarch butterfly wings.
- Students will watch short video clips on butterfly wings. Then have discussion on the important of wings to meet pollinator's needs. to survive.
- Students will design a monarch butterfly model. Students will have model "clapp" its wings.
- illustrations "The Girl Who Drew Butterflies" by Joyce Sidman.

Scientific Sub-question

How are humans and animals similar to their parents? How are they different?

- How are animal offspring born with similar external and internal structures as their parents?
- Do all offspring act or look like their parents? What evdience can be used to show this?

Lesson- The Flight of the Monarch Butterfly

- Students will read passage about the migration of Monarch Butterflies.
- Students will watch short video clips on the butterfly migration.
- Read a-loud, "Winged Wonders, Solving the Monarch Migration Mystery" by Meeg Pincus
- Students will design their own butterfly using the butterfly template.
- Students will learn how to use a compass. Students will use a compass to direct their butterlfly's migration.

Scientific Sub-question

How do we know there is an issue or threat in our enivroment?

- What is an enviromental threat?
- What is an invasive species and how can people protech their enironment?

Lesson- The Emerald Trap

- Teacher will guide students in reading & discussion on E.A.B. and invasive species.
- Students will watch short video on how to stop the threat of Emerald Ash Borers.
- Students will follow guided worksheet to design and make a E.A.B. decoy.
- Students will use guided worksheet to design and make a E.A.B. trap.
- Students will collect data on designed trap.