Title: From seed to plant

Objectives: Fact vs. Opinion

Grade Level: 2-4

Resources:

Software: • Kidpix, Appleworks Painting, Easy Color Paint, etc.
• Internet Explorer, Safari, Netscape

Literature: From Seed to Plan by Gail Gibbons (ISBN 0-8234-1025-0)
Also: Chart Paper, White Board, Chalk Board

Preparation: 1) On separate sheets of chart paper create two graphic organizers like this:

![Graphic Organizer A](chart.png)

![Graphic Organizer B](chart.png)

Lesson (55 min.):

Part 1: Using graphic organizer “A” (above) ask the students to brainstorm the concept of “How Seeds Grow”.

- Write the concept in the center circle. The outer circle is for the ideas the students brainstorm. Place ideas that are semi topic in the square area. Off “off” topic ideas go outside of the square. (5 min.)

Part 2: Read the story to the students. As your reading stop
occasionally to refer back to an idea generated on the chart. (10 min.)

**Part 3:** Introduce/Review Fact vs. Opinion. (5 min.)

**Part 4:** Using graphic organizer “B” (above),

Place the concept of “How Seeds Grow” in the center circle. Use the left for circles for “Facts”. Use the right four circles as “opinions”. Add more circles to each side if needed.

Split the students into two groups. Ask one group to verbally brainstorm two key opinions. Ask the other group to verbally brainstorm two key facts. Give each group 1-2 minutes to complete the task. Place the ideas on the organizer. Next, have the groups change tasks, generate the new ideas and place them in the graphic organizer. (10 min.)

**Possible Technology Skills to Teach:**

- Searching using a web browser
- Inserting clip art in Appleworks
- Moving between Applications using cut and paste
- Inserting a text box within an object

**Part 5:** In the computer lab, using Appleworks drawing and www.google.com/images. Model a search for a flower or plant of choice using “images” in Google. Using cut and paste, flip between applications and have the students place the image in the middle of the page. Next, have the students draw circles and lines to imitate graphic organizer “B”.

Finally, using the information from the text, students should insert their facts and opinions into the circles using a “text box”. (25 min.)

**Connections to Subject Areas:**

Science:  Foss kits (Seeds, Plants, etc.)
Reading:  **HM Invitations to Literacy**: 2nd grade Theme “Be a
Nature Detective”, 3rd grade “Theme Weather Watch”, 4th grade Theme “Earth Patrol”

Other HM Reading Programs; 2nd grade theme “Nature Walk”, 3rd grade theme “Animal Habitats”, 4th grade theme “Nature”

Fact: Pollination happens with help from the wind and insects.

Fact: The parts of a flower are the pistil, stamen stigma and petals.

Fact: Seeds grow into the same plant that made them.

Fact: Fruit protects the seed.

Opinion: My mother loves pink flowers.

Opinion: Flowers always make me sneeze.

Opinion: Daisies are the prettiest flower.

Opinion: Sunflower seeds are the best tasting.
<table>
<thead>
<tr>
<th>FACT</th>
<th>VS.</th>
<th>OPINION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A seed must germinate before a plant forms.</td>
<td>This is the most beautiful flower in the world.</td>
<td></td>
</tr>
<tr>
<td>Seeds travel with the help of the wind, animals, and water.</td>
<td>Flowers make you sneeze.</td>
<td></td>
</tr>
<tr>
<td>Pollen must land on the stigma in order to pollinate.</td>
<td>Daisy are one of the only flowers that pink.</td>
<td></td>
</tr>
<tr>
<td>Seeds need soil, water and sunlight in order to sprout.</td>
<td>Daisies make me smile.</td>
<td></td>
</tr>
</tbody>
</table>