<table>
<thead>
<tr>
<th>Tasks</th>
<th>Who/when</th>
<th>√</th>
</tr>
</thead>
<tbody>
<tr>
<td>PowerPoint</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of participants? Number of PPT CDs?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE: The number of items should be based on the number of people attending.**

### General supplies
- Chart paper: 100 pages
- Name tags to be used each day
- Markers (big & small), colored pencils: 5 of each size/table
- Masking tape: 10 rolls
- Sticky notes 3” x 3” or 3” x 5”: 3 pads/table
- pens/pencils: Enough for people who don’t bring any
- Push pins, T-pins or tape to hang posters
- Blank 8 ½” x 11” paper: 3 to 4 sheets per person
- Colored pencils: 8 to 10 per table

### Day One - 4 hours

#### #1. Inspiring Young Minds...the scientist in all of us – supplies & handouts – TOT II 90 minutes

**Handouts:**
- Find someone who... 1:9
- Afterschool SET ready for life checklist 1:11-1:12 Back-to-Back

**Posters:**
- SET ready for life checklist 2 x 3 laminate (2)
- Why SET in afterschool settings 2 x 3 laminate (2)

**Supplies:**
- Beach balls with questions 10

#### Curriculum Overview

**Break**

#### #2. Explore It! Design It! Use It! – supplies & handouts 2 hours

**Handouts:** none

**Supplies:**
- Vegetable oil Small bottle – 8 oz.
- Plastic or paper cups 20 – 6 to 8 oz.
- Water 2 quarts +/-
- Foods that don’t contain oil (slices of apples, oranges, potatoes or squash)
  - 2 apple or orange
  - 2 potato or squash
- Foods that contain oil (nuts, chips or soybeans)
  - 2 small bag nuts
  - 2 small bag chips
- Brown paper grocery bag – cut into 3” x 3” squares 2 to 3 bags
- Spoons (plastic are okay) 10 to 15
- newspaper Stack of 15 to 20 inches
- construction paper 30 sheets
- craft sticks 40
- yarn or string 20 yards cut in to 1 yard pieces
- scissors 10 pairs
- plastic cups 40 - 6 to 8 oz.

**Posters:**
<table>
<thead>
<tr>
<th>Science, Engineering and Technology model</th>
<th>2:15 - 2 x 3 (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process of science inquiry</td>
<td>2:17 – 2 x 3 (2)</td>
</tr>
<tr>
<td>Engineering process</td>
<td>2:19 – 2 x 3 (2)</td>
</tr>
<tr>
<td>Technology processes</td>
<td>2:22 – 2 x 3 (2)</td>
</tr>
</tbody>
</table>

**Day Two**

**8 hours**

**breakfast**

**#3. SET Abilities for the 21st Century– supplies & handouts – TOT II**

**90 minutes**

**Handouts:**

- SET abilities
  - 3:8-3:9 Back-to-Back
- Changing emphasis
  - 3:17-3:18 Back-to-Back

**Supplies:**

- 1 bag of a variety of objects (at least 20) per table, such as paper cup, pencil, plastic flower, paper clip, bottle cap, rock, ribbon, wrapper, marble, rubber band, soap bar, scissors, leaf, etc.
  - 10 bags
- Trays or plates of objects (rocks, shells or leaves) – 1 per table group
  - 10 plates
- Blank and lined index cards
  - 1 each per person
- Hand lenses – 1 per table group
  - 10
- Ruler – 1 per table group
  - 10
- Graph paper
  - 1 per person +/-
- Supplies for SET abilities activities on pages 3:10 to 3:15
  - SET Ability Activity 1 – straws, tape paper clips
    - 3:10
  - SET Ability Activity 2 – pens/pencils, paper, graph paper
    - 3:11
  - SET Ability Activity 3 – two items to compare, paper, pens
    - 3:12
  - SET Ability Activity 4 – ruler, string, pair of dice, paper, pens, items to measure
    - 3:13
  - SET Ability Activity 5 – plastic shopping bags, string/yarn, tape, paper cups, marbles, coins or rocks
    - 3:14
  - SET Ability Activity 6 – dowel or PVC 12”-18”, tape, yarn, wire coat hanger, large craft sticks
    - 3:15

**Break**


**75 minutes**

**Handouts:**

- Swamp slug boat directions – A and B
  - 4:11 - 5 of A – single sided
  - 4:12-4:13 - 5 of B – BTB

**Supplies:**

- 8 oz. cups, clear
  - 20
- Mt. Dew
  - 2 liters
- Foam trays or paper plates
  - 50
- Drinking straws, non-flex are best
  - 50
- Raisins
  - 3 boxes
- Large plastic tub (2’ x 4’ x 8”deep) to test boats - 2” of water
  - 2

**Posters:**

- Experiential learning model
  - 2 x 3
- Science inquiry
  - 2 x 3

**Lunch**

**1 hour**
#5. How kids learn science and what it means to afterschool – supplies & handouts – TOT I  90 minutes

**Handouts:**
- Blank map of US  5:16
- SET Activity bags and sample sheet  5:18-5:19 Back-to-Back

**Supplies:**
- Chart paper, markers, pens/pencils, sticky notes
- Index cards  1 per person
- *Fish is fish* book by Leo Lionni  10

**Posters:**
- Concept map poster  2 on chart paper
- Wonder wall poster  2 on chart paper
- Science, engineering and technology word wall poster  2 on chart paper

**Break**  15 minutes

#7. Creating science-rich environments  90 minutes

**Handouts:**
- Strands of informal science learning  7:11 – 1 per person
- Brainstorming activity sheets  7:5-7:10 – 2 per table Back-to-Back
- Strand table top activities  7:12, 7:18-7:22 – 2 sets per table, Back-to-Back

**Supplies:**
- Science games and puzzles – 1 per table  10
- Chart paper, markers, jeopardy game board  2
- Wonder Wall  1 on chart paper
- several non-fiction books on topic on Wonder Wall  6
- biographies and/or literature showing children involved in science  6
- 4-H Youth Experiences in Science – Bubbles or other theme-based five day curriculum
- 4-H Youth Experiences in Science Backpack or other science backpack
- Measuring tools and items for measuring tools kit  1 kit

# Q & A…Teaching Techniques  45 minutes

**Day Three**  4 hours

#9. SET Everyday…Using centers in afterschool  90 minutes

**Handouts:**
- SET center discovery sheet  9:19 – 2 per table
- Facilitating and managing cards  9:20-9:21, 4 sets of cards

**Supplies:**
- Logic games and tokens  10 games
- Chart paper, markers, tape
- Enlarged puzzle pieces  9:8 & 9:9-12
- SET Centers & supplies – 1 per table  9:13-9:18
- Index cards  1 per person

**Planning**  1 hour 45 minutes