Garden Journal

Flow of Water in Ecosystems, Food Systems, and Your Home

Earth Genius
LESSON #1: DROUGHT HARDY GARDENS

Can you name these types of irrigation?

Circle all of the things that use water

Word Bank

Drip Irrigation  Sprinkler
Surface Irrigation  Hose

Name 5 ways we can reduce the amount of water we use.

1 ______________________
2 ______________________
3 ______________________
4 ______________________
5 ______________________
Can you put in order the steps an orange has to go through before it arrives on your plate? 
Number from 1 to 8

1. Farm workers harvest
2. Oranges arrive at a distribution center and are stored before they are bought
3. Shopper purchases orange and drives it home
4. Oranges travel many miles
5. Loaded back on a truck and delivered to a store
6. Grow on a farm
7. You have an orange for dinner!
8. Oranges boxed for delivery

What are some ways you can use less energy when getting food?

________________________________________________________________________

________________________________________________________________________

Draw your dream garden below:
Survey: How Much Water Do You Use?

Directions: This is a survey to find how much water you use in your home during one full week. Place a tally mark in the Times Per Day column every time someone in your family does the activity.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Times per Day</th>
<th>Weekly Total</th>
<th>Water per Activity</th>
<th>Total Water Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toilet Flushing</td>
<td>+ + + + + + +</td>
<td>+</td>
<td>5 gallons</td>
<td></td>
</tr>
<tr>
<td>Short Shower (5-10 minutes)</td>
<td>+ + + + + + +</td>
<td>+</td>
<td>25 gallons</td>
<td></td>
</tr>
<tr>
<td>Long Shower (&gt;10 minutes)</td>
<td>+ + + + + + +</td>
<td>+</td>
<td>35 gallons</td>
<td></td>
</tr>
<tr>
<td>Tub Bath</td>
<td>+ + + + + + +</td>
<td>+</td>
<td>35 gallons</td>
<td></td>
</tr>
<tr>
<td>Teeth Brushing</td>
<td>+ + + + + + +</td>
<td>+</td>
<td>2 gallons</td>
<td></td>
</tr>
<tr>
<td>Washing Dishes with Running Water</td>
<td>+ + + + + + +</td>
<td>+</td>
<td>30 gallons</td>
<td></td>
</tr>
<tr>
<td>Washing Dishes Filling a Basin</td>
<td>+ + + + + + +</td>
<td>+</td>
<td>10 gallons</td>
<td></td>
</tr>
<tr>
<td>Using Dishwasher</td>
<td>+ + + + + + +</td>
<td>+</td>
<td>20 gallons</td>
<td></td>
</tr>
<tr>
<td>Washing Clothes</td>
<td>+ + + + + + +</td>
<td>+</td>
<td>40 gallons</td>
<td></td>
</tr>
</tbody>
</table>

Grand Total = __________