Today you will need your notebook and pencil.
- Computer Modules 1, 2 and 3 due tomorrow.
- Quiz on HW 1 & 2 on Thursday.
- Homework Page due Friday.

**Review:**
Which greenhouse gas accounts for 60% of the greenhouse effect?

- Water Vapor

**Contributions to Global Climate Change**

4. How does deforestation, burning of fossil fuels and large-scale development contribute to global climate change?

- Deforestation
- Fossil Fuels
- Large-Scale Development

**Deforestation**

- **Photosynthesis:** Plants absorb carbon dioxide from the atmosphere and give off oxygen.

- More carbon dioxide remains in the atmosphere (photosynthesis).
- Destroyed plants give off carbon dioxide when they decompose.

**Burning of Fossil Fuels**

- Releases more GHG into the atmosphere (mainly carbon dioxide), warming the climate.

**Large-Scale Development**

- Paved surfaces absorb sunlight and produce heat. Pollution and buildings also contribute.

Why the urban heat island effect occurs
Urban Heat Island Effect

<table>
<thead>
<tr>
<th>Type</th>
<th>Temperature (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural</td>
<td>80</td>
</tr>
<tr>
<td>Suburban</td>
<td>90</td>
</tr>
<tr>
<td>Commercial</td>
<td>95</td>
</tr>
<tr>
<td>Downtown</td>
<td>92</td>
</tr>
<tr>
<td>Urban</td>
<td>90</td>
</tr>
<tr>
<td>Park</td>
<td>80</td>
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<td>Suburban Residential</td>
<td>90</td>
</tr>
<tr>
<td>Rural Residential</td>
<td>80</td>
</tr>
</tbody>
</table>

Carbon Cycle - Activity

- Please turn in your activity at the end of class!