**Urban Planning** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. OPEN **games.download3000.com/play/urban-plan-2001** - scroll down to the blank city map

2. How much money is in the box at the top right? \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Click and place some items on the city map

3. Click on **Press for 3D mode** - it will evaluate your city and tell you what is wrong - At each stage you will have a few problems - you can fix them by adding or deleting items - just click on **Return to Design Mode**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Trial 1 | Trial 2 | Trial 3 |
| Tree |  |  |  |
| residence |  |  |  |
| store |  |  |  |
| factory |  |  |  |
| Water Plant |  |  |  |
| Go. Offices |  |  |  |
| Priv. Offices |  |  |  |
| Police dept |  |  |  |
| Fire Dept |  |  |  |
| Hospital |  |  |  |
| School |  |  |  |
| University |  |  |  |
| Museum |  |  |  |
| Research lab |  |  |  |
| Seaport |  |  |  |
| MONEY |  |  |  |
| Population |  |  |  |
| Crime Rate |  |  |  |
| Unemployment |  |  |  |
| Jobs |  |  |  |

4. What are the solutions for these problems? - Add other problems that you find!!

Overcrowding\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unemployment \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

High Crime rate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Air Pollution \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Businesses moving away \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. When you get to a "balanced” city you will get a message \_\_\_\_\_\_\_\_

6. Now try to build a better city

How can you reduce pollution from transportation? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Build your city - Record the number each of the items on the planning page as well as the total Money you earned.

From the 3D page record final population, crime rate, unemployment and jobs

The previous activity was limited in it's environmental aspects but gives an idea of how various urban needs are interrelated.

**What is Wrong with Modern Cities ?**

1. Open **Wikipedia Urban Sprawl** Use the first paragraph to write a definition \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

List some problems \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Open **science.nasa.gov/headlines/y2002/11oct\_sprawl.htm** The city shown is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Make a rough estimate is how much the area increased 1960 - 1992 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NASA says problems of urban sprawl include \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Smart Growth**

Open [**www.epa.gov/dced/about\_sg.htm**](http://www.epa.gov/dced/about_sg.htm) Go down to ***Principles***

A. Read and review the ten basic principles of Smart Growth. For some give the principle and environmental advantage

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Adv \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Take advantage of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ building design Adv. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Create \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ neighborhoods Adv \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Preserve \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , natural beauty, and critical environmental areas

Adv \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Provide a variety of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ choices Adv. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B. At the bottom click on **Smart Growth Illustrated**

1. Look at the photos. Choose 2 examples in different cities (one in CA)

Location \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key Principle # \_\_\_\_\_\_ Explain 2/ interesting features \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Location \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key Principle # \_\_\_\_\_\_ Explain 2/ interesting features \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C. Other countries [**www.pbs.org/frontlineworld/fellows/brazil1203**/](http://www.pbs.org/frontlineworld/fellows/brazil1203/) Write a paragraph about this city

D. Go to <http://en.wikipedia.org/wiki/Alternative_natural_materials>

1. Examples of Recycled Content Building Material \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Straw Bale Construction \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Building/Flooring made of earthen materials \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

E. Search the web for **LEED sustainable … , Introduction to LEED,** **What LEED measures**

1. List the main criteria that points are given for LEED certification. Circle the 3 you think are most important?

2. What are the three Ratings ?

F. **Ecology Action,** Open [**www.ecoact.org/Programs**/](http://www.ecoact.org/Programs/) Check out something you’re interested in, this is a great LOCAL website!!