Intro to Population

JAPAN: A case study in population density
FOCUS:
How could population density affect the way people live?
What did it all mean?

• 20 desks-2 students=
  – Australia’s population density
• 21 desks-12 students=
  – United States’ population density
• 1 desks-12 students=
  – Japan’s population density
WHAT DID YOU SEE?

WHAT WERE SOME OF THE REACTIONS YOU WROTE DOWN?

WHAT QUESTIONS CAME TO MIND AS YOU WATCHED THIS CLIP?

WHAT DOES THIS CLIP AND THE DENSITY ACTIVITY TELL YOU ABOUT JAPAN?
Before we move on…a few words you need to know:

- **Population Density**
  - Average number of people in a unit of area.

- **Population Distribution**
  - Where people live in a country (crowded cities or spread out in rural areas).

- **Arithmetic Population Density**
  - Population of a country divided by its total land area.

- **Physiologic Population Density**
  - Population of a country divided by its arable land area (land suitable for farming).
How could population density affect the following aspects of living?:

- Transportation
- Housing
- Land Use
- Health
Transportation

• Public Transportation
  – Bullet Trains – 180mph!!
  – “Pushers”

• Owning Cars
  – MAJOR Traffic Jams
  – Parking

• Commute
  – In Tokyo
    • 1 ½ hours each day!
    • 400 hours/year

Housing

• Limited Space
  – Activity
  – A typical person in the Washington D.C. has about 740 sq. feet of space vs. a typical person in Tokyo having about 170 sq. feet of space!

• Making the Most of Limited Space
  – Capsule Hotel:  [http://youtu.be/K0ViYfN420k](http://youtu.be/K0ViYfN420k)
  – Multi-Purpose Rooms
  – Cemeteries
Land Use

• Conflict Over Land
  – Building Up or Down
    • What about earthquakes?
  – Creating New Land
    • Create farmland by Terracing
    • Fill marshes and wetlands.

Health

• Increase in Population Density Can Affect Health:
  – Garbage
    • 2 to 3 lbs of garbage per person each day (in Tokyo)
  – Air Pollution
    • Smoke
    • Exhaust
  – Water Pollution
    • Sewage/Waste
    • Toxic Chemicals
    • Acid Rain
  – High Life Expectancy
    • Dealing with Living in a Crowded place
So...

How does population density affect how people live?
JAPAN “the incredible shrinking country”