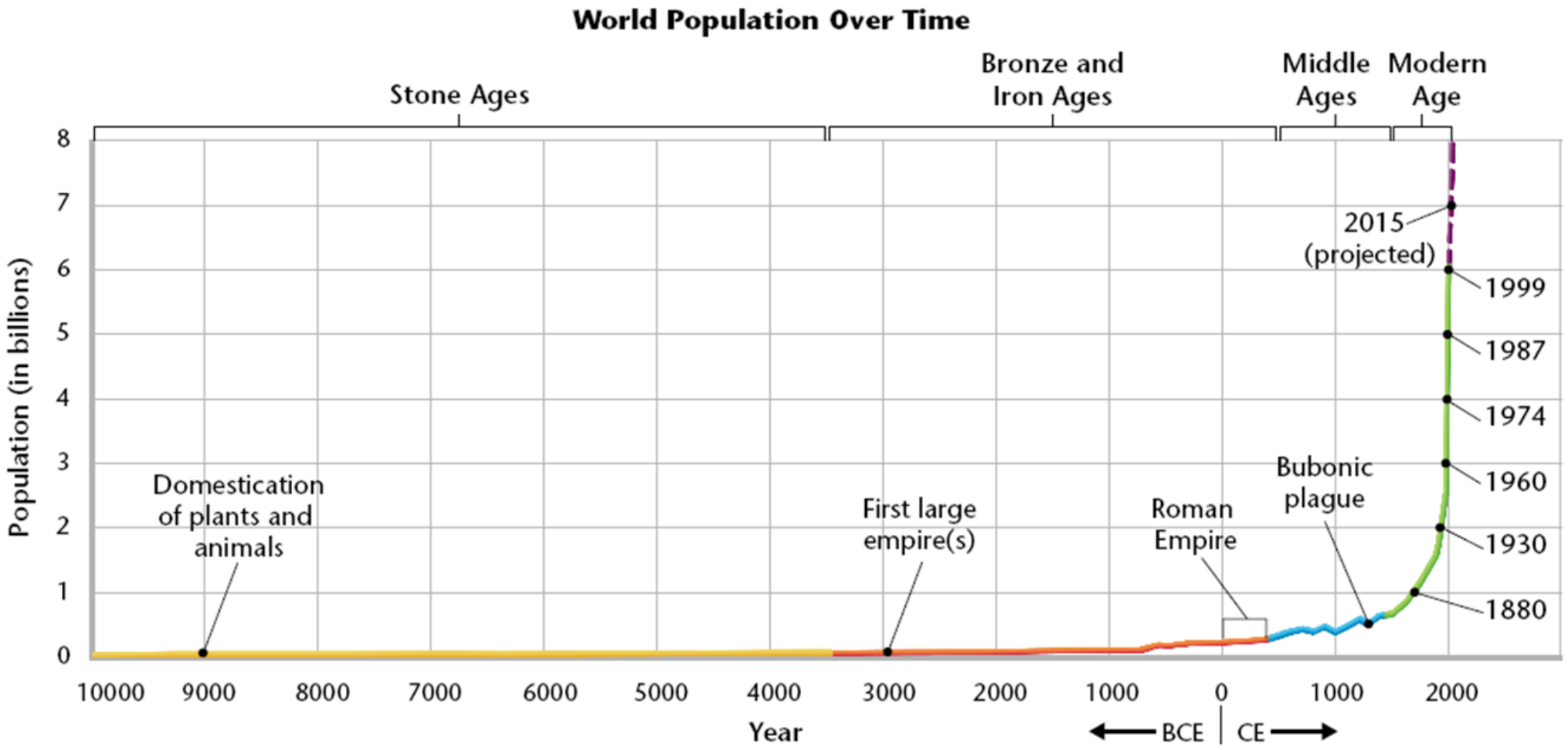
DO NOW

LOOK OVER UNIT 4 VOCAB

STUDYING HUMAN POPULATIONS

THE HUMAN POPULATION OVER TIME

- The human population has been exponentially growing since the 1800s.
- What is the size of the human population?
  8 Billion People
- Can the Earth sustain this growth?


World Population Over Time
Stone Ages
Bronze and Iron Ages
Middle Ages
Modern Age
Population (in billions)
0
1
2
3
4
5
6
7
8
Domestication of plants and animals
First large empire(s)
Roman Empire
Bubonic plague
2015 (projected)
1999
1987
1974
1960
1930
1880
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
1000
2000
Year
BCE
CE

TOUGH QUESTION ALERT!

P.C. = Birth - Death

Birth > Death : Increase

Birth < Death : Decrease

Birth = Death : Stay the Same

What has caused this increase?

- Higher birth rates
- Lower death rates

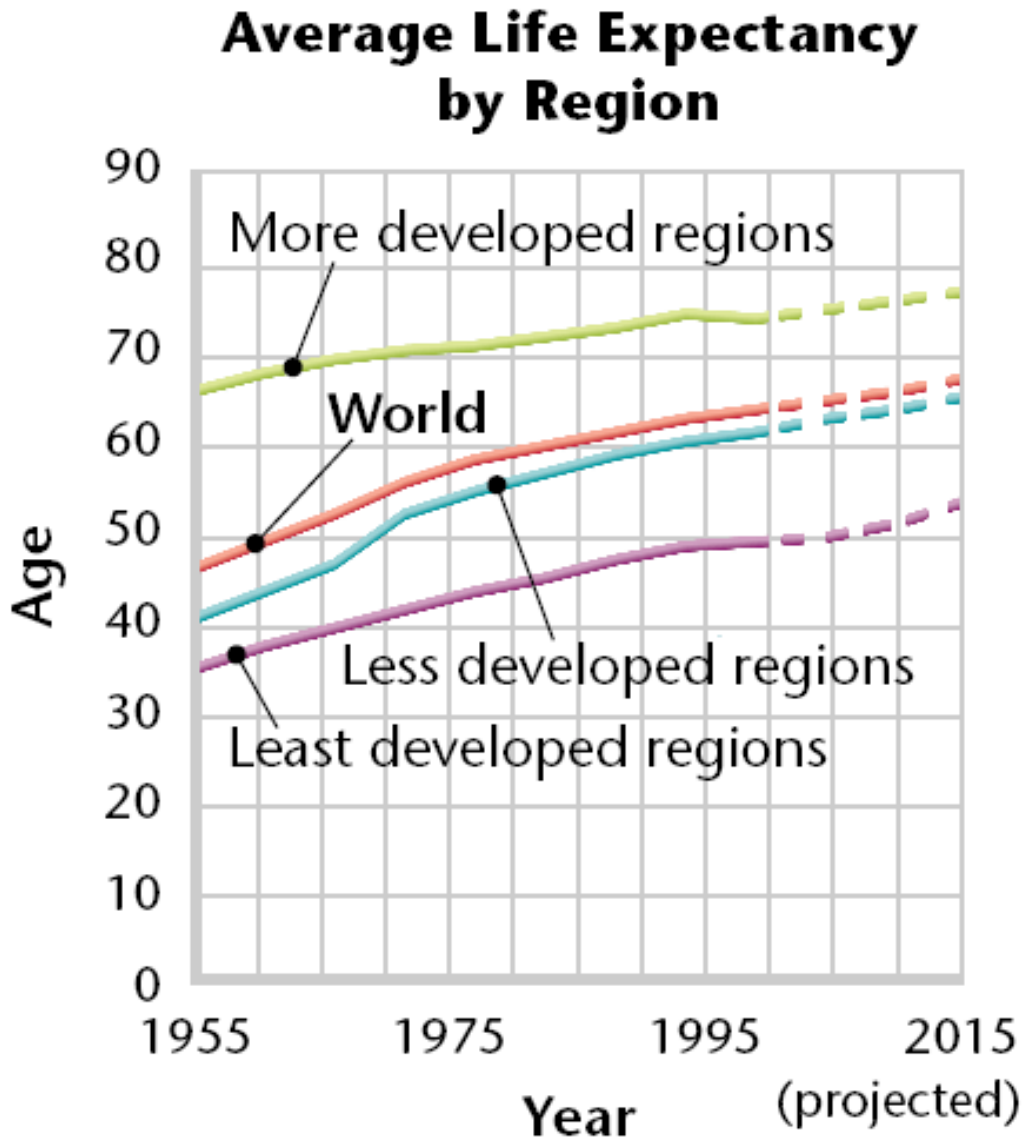
DECLINING DEATH RATES

- The dramatic increase in Earth's human population has happened because of <u>lower death rates – not higher birth rates</u>
- Death rates have declined mainly because of…

1. Advancements in medicine
2. Adequate food
3. Clean water
4. Sanitation

LIFE EXPECTANCY

LIFE EXPECTANCY IS THE AVERAGE LENGTH OF TIME THAT AN INDIVIDUAL IS EXPECTED TO LIVE.



QUESTION

- Is the human population growing at the same rate throughout the Earth? For example, is the population of the USA growing at the same rate as the population of India?

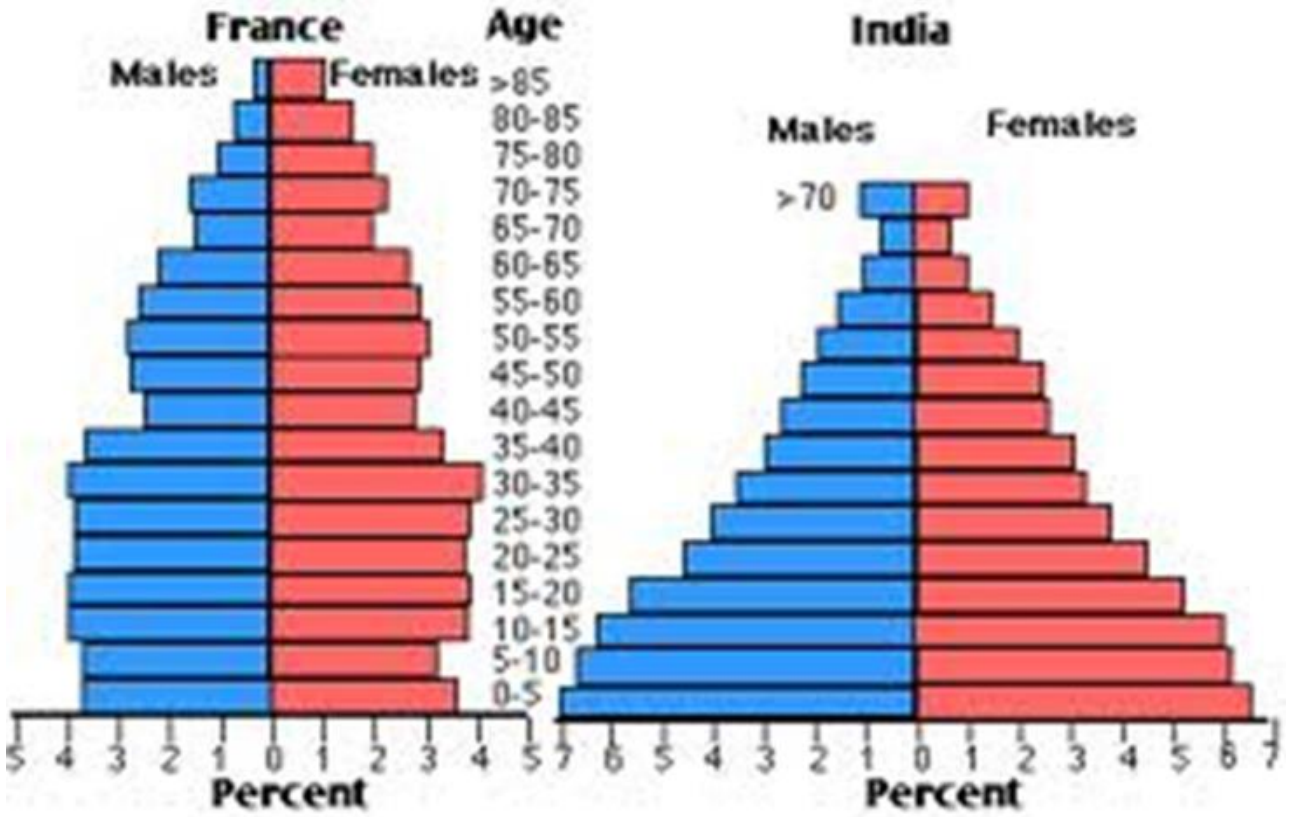
AGE STRUCTURE

Age structure is the classification of members of a population into groups according to age.

Countries that have high rates of growth usually have **more young people than older people (Birth > Death)**.

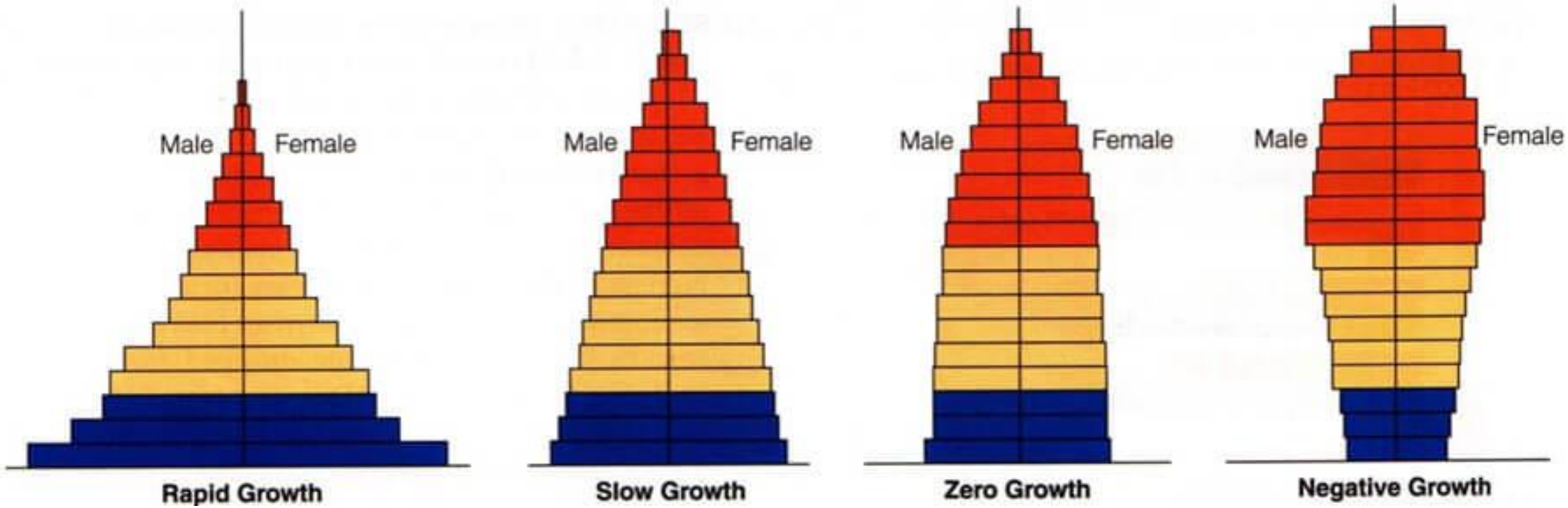
Countries that have slow/no growth usually have **an even distribution of ages in the population (Birth = Death)**.

Countries that have a decrease in population usually have **more older people than young people (Birth < Death)**.



AGE STRUCTURE DIAGRAM

AGE STRUCTURE CAN BE GRAPHED IN AN AGE STRUCTURE DIAGRAM, A TYPE OF DOUBLE SIDED BAR GRAPH.


Male
Female
Rapid Growth
Male
Female
Slow Growth
Male
Female
Zero Growth
Male
Female
Negative Growth