Survive the five! The person that raises their hand first and answers the question correctly sits down. The others go again.

What are the steps in the scientific method?

Question/Problem Research Hypothesis Experiment Results/Data Conclusion

Environment comes from a French word the means...

To surround

What makes something sustainable?

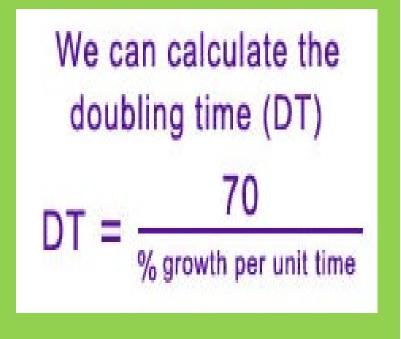
The LONG TERM survivability and functioning of a system.

i,e, the process can continue for a long time

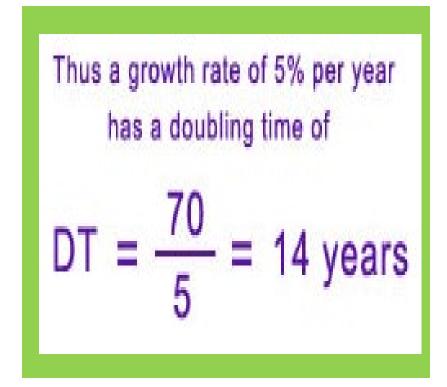
Why is the island of Mauritius a good example of environmentalism

The government in the 18th century ordered sensitive areas to be preserved.

Write the formula for doubling time on the board.



What is the doubling time of a population with a growth rate of 5%?



What is the difference between a renewable and a non renewable resource?

Renewable resources can be replenished within a person's lifetime.

> Nonrenewable can not.

What is Environmen tal Science all about?

Systematic approach to learning about the environment

What causes most environmental problems?

Complex interrelated problems

Give 3 examples of non-renewable energy resources.

Coal Petroleum Natural Gas Nuclear

Explain how Atlantic cod are a potentially renewable resource?

If they are fished according to sustainable yield, and enough time for reproduction is given, they can repopulate.

What are factors that could lead to violent conflicts?

 Racial antagonisms Access to water Resources degradation • Religion

Give an example of Sustainable Yield that is not fish!

A farmer has 100 chickens. If he eats 2 a day that will leave enough to repopulate over time.

 If he eats 10 a day they won't have enough time.

What are some examples of problems being addressed by environmental scientists?

Creating process that promote sustainability • Finding new resources for a growing population Clean air

- Clean water
- Climate change

What is your ecological footprint?

A tabulation of the demands placed on nature by individuals

What is a common-property resource?

Common property resources are natural resources owned and managed collectively by a community or society rather than by individuals

Explain the tragedy of the commons, with an example

There is a common property resource that is overexploited and we run out.

What is utilitarian conservation?

Resources should be saved because they are used by all living things

What is pragmatic utilitarian conservation?

The idea there is waste in neglecting the development and use of natural resources

What is the planetary management worldview?

- Humans are number
 one
- There will always be more
- Economic growth is good.
- Natural Resources are here for our benefit.

What is the biocentric view for the environment?

 Save/ preserve nature for it's beauty and spiritual value

What environmental view would the national park service support most?

 Biocentric preservation and pragmatic utilitarian conservation

How was Rachel **Carson's Silent** Spring ideas different from early north American ideas?

 Silent spring placed more emphasis on pollution problems

What is the earth wisdom worldview?

- Nature is not just for us.
- Not always more.
- Sustainable growth
- Cooperation with nature/each other.

Explain the reasoning behind the order of Reduce, Reuse, **Recycle.**

Reduce – uses less materials and creates less waste in the end. **Reuse – needs no new** materials or energy. Recycle – does not need new materials and saves space in a landfill.

Which country uses the most coal?

China

What kind of pollution kills at least **3** million people per year?

Air Pollution

List 3 reasons that **Bison** population plummeted between 1500 and 1900

- Killed for food
 Killed for hides for trading
- To control the native americans
- Competing with cattle for food resources (grass)
- Killed for trampling
 - crops

 Bones used for fertilizer

Give 3 characteristics of hunter gatherers.

Survive by collecting edible plants, hunting, fishing, scavenging. •Lived in small groups of less than 50 Worked together to get enough to survive. Nomadic – moved to find food. Sustainable, low resource use society.

• The exportation of toxic waste to poor countries.

What is toxic colonialism?

How is poverty passed from generation to generation? The lack of opportunities for change, education etc...

What are the top 5 countries in terms of sustainable devleopment?

• Sweden Finland New Zealand Switzerland · Costa Rica

If everyone used resources at the rate we do in the US, what would happen?

• We'd run out of resources FAST!

Who does more environmental damage?

• The world's poorest people

Put into 2 groups and give them titles.

- Rachel Carson
- Gifford Pinchot
- Aldo Leopold
- Teddy Roosevelt
- John Muir
- John Wesley
 Powell

 Preservationists: Muir, Carson, Leopold

• <u>Wise Use:</u> Pinchot, Roosevelt, Powell

Explain the differences between the two groups using the example of a forest • <u>Preservationists:</u> Muir, Carson, Leopold

• <u>Wise Use:</u> Pinchot, Roosevelt, Powell

• <u>Preservationists:</u> Leave it alone for plants, animals, and future generations.

• <u>Wise Use:</u> Log it sustainably for use by man

What was the lesson of the Kaibab?

• Management decisions have unknown ramifications... so make good decisions based on what you have learned.

What is an ecosystem service

 Service provided by nature that assists mankind

Define ethics

 An individual's belief of what is right or wrong

Define Science

 The process of producing knowledge methodically and logically

Why is poverty passed from one generation to the next Because of a lack of available opportunities for the poor

Whi was responsible for most early environmental studies Colonial administrators trained as scientists

• 11th century

When were pollution problems first recognized

What was added to environmental thinking at the end of the **20th century**

Global concerns