



Environmental Jenga

Pre-Lab Discussion

1. What is a system?
2. What kinds of natural changes occur in the environment?
3. What kinds of human-influenced changes occur in the environment?
4. Debate the statement "We are going to destroy the Earth if we continue to do environmental damage"

Environmental Jenga

Data Table

Trial #	Result	Example	Responsible Party
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
..			

1. Set up the Jenga game being sure to mix up the colors.
2. Roll the die. Follow the table below and complete your group's data table.
3. If you roll a 2, 3, 4, or 5, use the table below to determine which block you should remove. DO NOT TAKE BLOCKS FROM THE TOP!!
4. Put the removed block off to the side
5. If you roll a 1 you can put any color back anywhere you choose (you did something good)
6. If you roll a 6 you can remove any color you choose (non-point source pollution)
7. Take turns rolling the die and removing blocks until the tower falls.
8. Complete the data table by noting how many of each type of disturbance occurred before the Earth collapsed.

Die Roll	Impacts to Earth
1	Positive impact on Earth – Put a block back
2	Negative disturbance to Hydrosphere = Blue
3	Negative disturbance to Atmosphere = Red
4	Negative disturbance to Biosphere = Green
5	Negative disturbance to Geosphere = Brown
6	Non-point Source Pollution – Remove any one block

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Analysis and Conclusions

1. What does the tower of blocks represent?
2. What does each color represent?
3. What does removing a block represent?
4. What does the tower falling represent?
5. Was the number of blocks removed before the tower fell always the same? What can you infer about the Earth and how it reacts to change?
6. How do we know if the Earth is healthy?
7. Who is to blame for changes to the Earth?