

What happened to the systems of the Aral Sea in terms of inputs, outputs, and energy?

With respect to matter? What about energy?

Thermodynamics state? How does this relate to the Earth system?

Thermodynamics state? How does this relate to the Earth?

Thermodynamics, not all of the energy from the gasoline you put in forward. What happens to the rest?

Using (inputs vs. outputs), describe why our planet is heating.

What is the steady state of a system? What about positive

What is the steady state of a system? What about negative

What is the steady state of a system? What about positive

What is the steady state of a system? What about negative

What is the steady state of a system? What about positive

What is the steady state of a system? What about negative

What is the steady state of a system? What about positive

What is the steady state of a system? What about negative

What is the steady state of a system? What about positive

What is the steady state of a system? What about negative

What is the steady state of a system? What about positive

What is the steady state of a system? What about negative

What is the steady state of a system? What about positive

What is the steady state of a system? What about negative

What is the steady state of a system? What about positive

What is the steady state of a system? What about negative

What is the steady state of a system? What about positive

What is the steady state of a system? What about negative

What is the steady state of a system? What about positive

What is the steady state of a system? What about negative



| Water Pollution Review | | |
|---|---|---|
| Pollutant (Example) | Source(s) | Problem(s) |
| SO ₂ : <ul style="list-style-type: none"> Oxygen requirement of bacteria decomposes dead organic matter includes agriculture 30%, SO₂ should be an insecticide | Decomposition of dead organic matter includes agriculture 30%, SO ₂ should be an insecticide | <ul style="list-style-type: none"> Creates a dead zone Building salt and increases SO₂ |
| Plastic (Cigarettes off road) | Plastic from mammals and birds, agriculture plows itself (fertilizer) and human sewage | Decreases the level of fauna depends on the type of fauna consumed |

Environmental Science

Study Guide



Cheat Sheet

- What type of system is Earth, with respect to matter? What about energy?
- What is a closed system? It is the atom that makes up the environment is closed. It is an open system.
- What does the First Law of Thermodynamics state? It states that energy can be transferred from one system to another, but it cannot be created or destroyed.
- What does the Second Law of Thermodynamics state? How does this relate to energy? Energy cannot be transferred from one system to another without loss of energy. The energy is lost as heat or waste (heat energy). The energy is lost as heat or waste oxygen.
- What is the law of energy? Energy can neither be created or destroyed.
- What does the Second Law of Thermodynamics state? How does this relate to energy?
- What does the second law of thermodynamics states that you cannot break even. It is changed from one form to another, it always moves from a more useful to a less useful form.
- Based on the second law of thermodynamics, not all of the energy from a car gets used to move the car forward. What happens to the rest? The rest can be good for air conditioning, and charging your phone.
- Using a systems analysis approach (inputs vs. outputs), describe what is up (global warming). Goods (inputs) are absorbing and killing the carbons that maintain temperature (output) is occurring.
- How does negative feedback affect the steady state of a system? What is feedback? A negative feedback is self-regulating and stabilizing because the output

Ap Environmental Science Jay Withgott Notes

Christian Drosten

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