

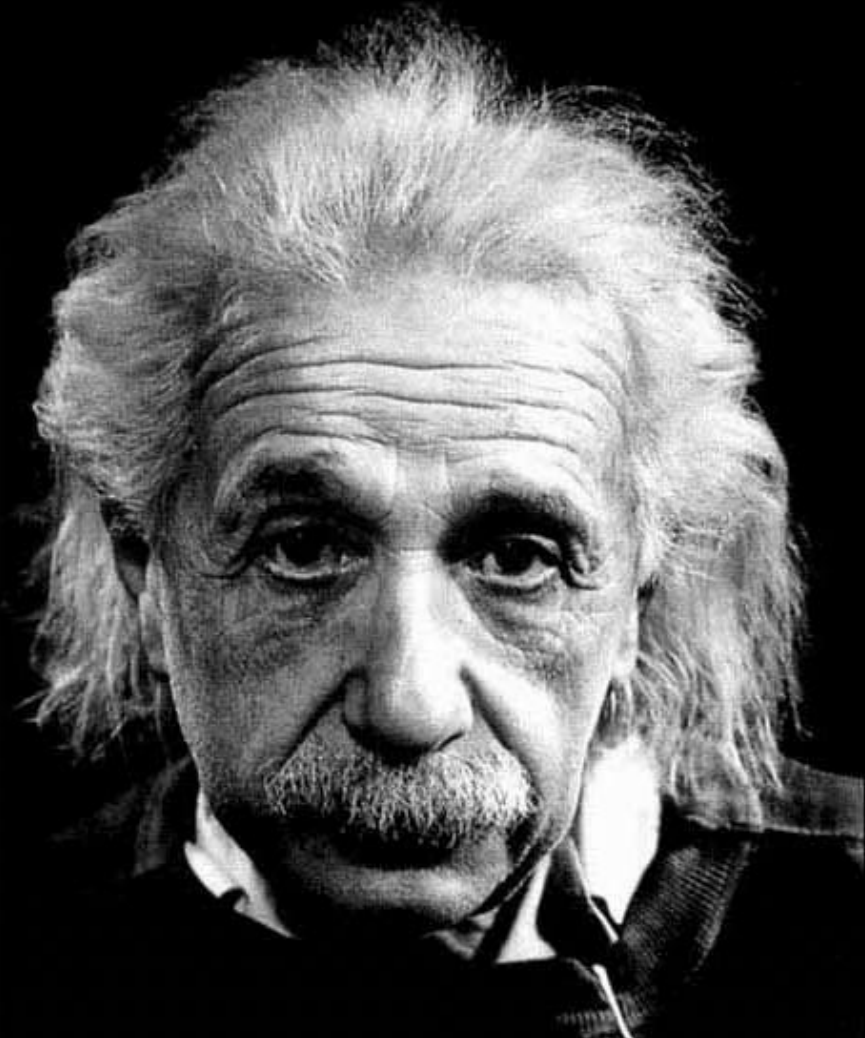
Warm-up

1. **Natural Systems are usually “open systems.” How are open systems different than “closed systems?”**
2. **Human actions create _____ in all other parts of the Earth System.**
3. **What are the 2 sources of energy for the Earth System?**
4. **What is a non-renewable resource?**

“What is Scientific Inquiry?”

“Everything should be made
as simple as possible,
but not simpler.”

Albert Einstein



Chapter 1, Section 5

All Science is based on 2 beliefs...

1. Natural world interacts in
consistent, predictable ways.

2. Understand consistent behavior through
careful, systematic study.

We can learn what to EXPECT.

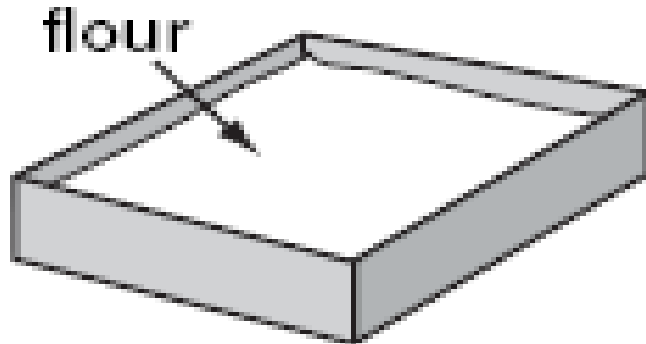
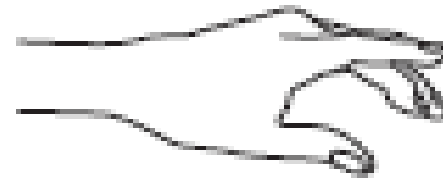


Recall: Scientific Method.

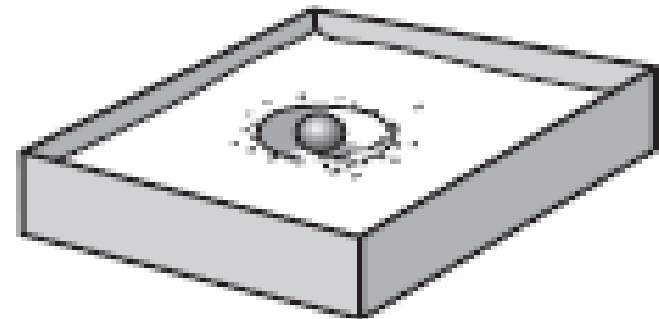
1. Question (find a problem)
2. Observation (Research)
3. Hypothesis (guess)
4. Experiment
5. Record and Analyze results
6. Conclude (“this is what we found...”)



Scientists repeat stuff.



Before



After

So differences caused by natural variation become clear.

Hypothesis

- An Explanation that is tested to determine “validity” (correctness)
- must be tested and analyzed



Theory.

When a Hypothesis survives LOTS of testing others have been eliminated.



Theory:

1. Well-tested belief
2. Widely accepted
3. Explains certain observable facts

Assignment

- Chapter 1 Assessment
- p.29-30
- #1-6, 8-15, 17-20, 23, 32-33
- Write Question & Answer.