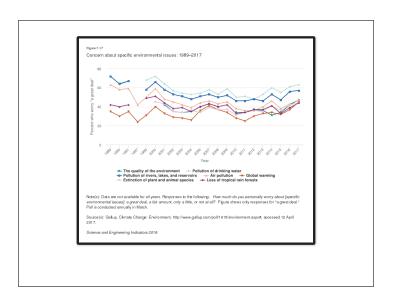
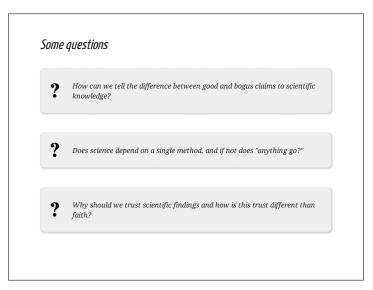
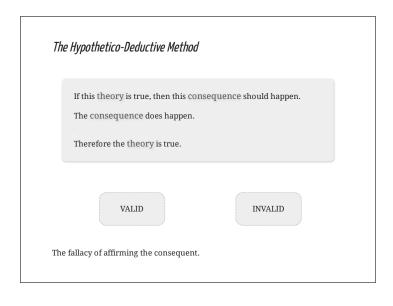
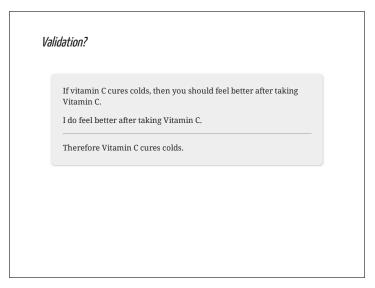
# Science Denial a case of misplaced skepticism George Matthews, Plymouth State University 2020



# 1. The Earth's climate is not in fact changing and the evidence does not support that it is. variation: Evidence that it is changing is fraudulent. 2. It is changing but the change is natural and not caused by us. 3. It is caused by us, but it is a bad idea to try to stop it. variation: Maybe it is even a good thing that it is happening!







### Validation?

If climate change is caused by increased greenhouse emissions, then temperatures should rise as emissions rise.

Temperatures do rise as emissions rise.

Climate change is caused by increased greenhouse emissions.

What about other possible explanations of rising temperatures such as the wobble of the earth, sunspots, etc.?

### A Stronger Argument

If vitamin C cures colds, then you should feel better after taking Vitamin C, and you shouldn't feel better if you don't take it.

Whoever takes Vitamin C feels better and those who do not take it don't feel better.

Therefore Vitamin C cures colds.

### A Better Argument

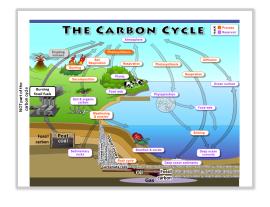
If climate change is caused by increased greenhouse gases, then temperature should rise as emissions rise, and fall as emissions fall

Temperature rises as emissions rise, and falls as emissions fall.

Climate change is caused by increased greenhouse gases.

This seems promising but how can we lower emissions now to test this hypothesis?

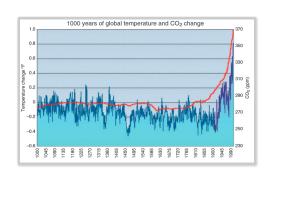
# Build Models



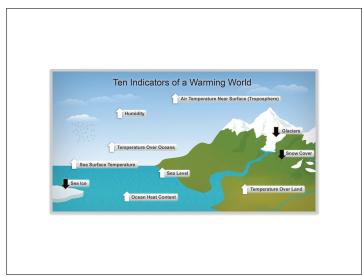
# Take account of confounding variables

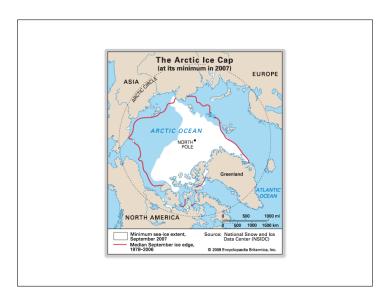


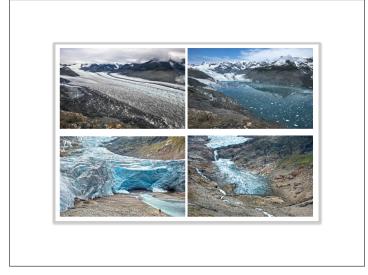
### Establish clear correlations

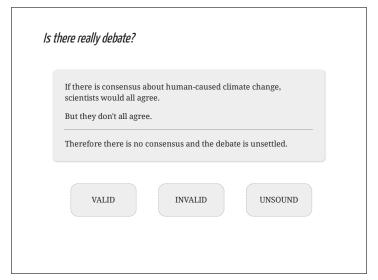


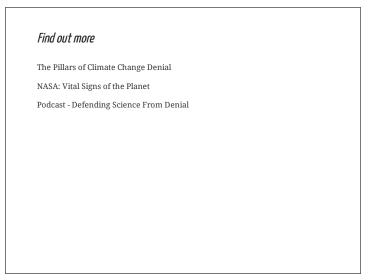














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