



Stress: Women in Science / Diversity piece.



A story: Building things / we did this every day. Worked well here.





Notice Mike Lacy...



Gave us a chance to focus on assessment.



And Jenna did observations, Mike will talk about.

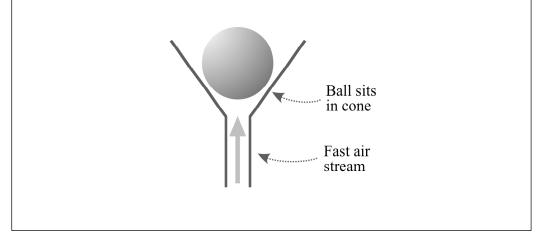


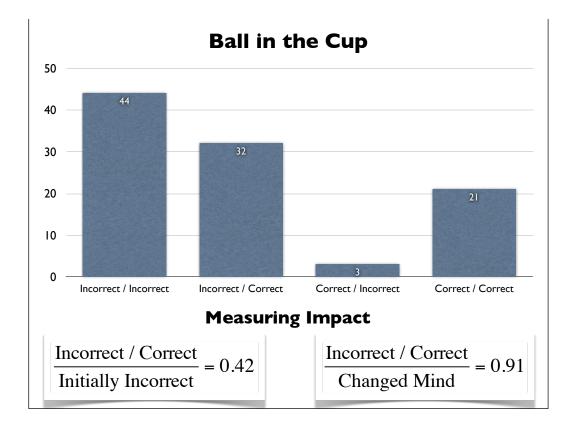
Our default.

## The Ball in the Cup

The picture at right shows a particular experiment in the Little Shop of Physics. When the air stream is turned on,

- A. The ball flies out of the cup.
- B. The ball is pulled in to the cup.





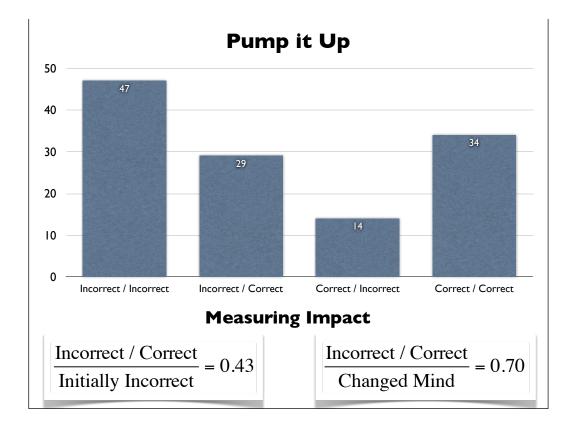


Interesting reason for failure...

## Pump It Up

A bike pump is used to pump air into a bottle. As the pressure goes up, what happens to the temperature of the air?

- A. The air warms up
- B. The air stays the same temperature
- C. The air cools down

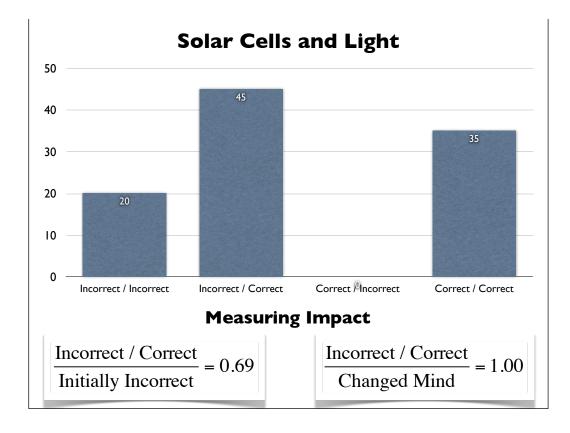




Working with teachers – more formal.

Different types of LED flashlights require different voltages to operate. Which color flashlight will require the highest voltage? A. Red B. Green C. Blue

And note: Didn't address this explicitly. Just did a series of related experiments. Got a chance to explore and discover, and discuss.





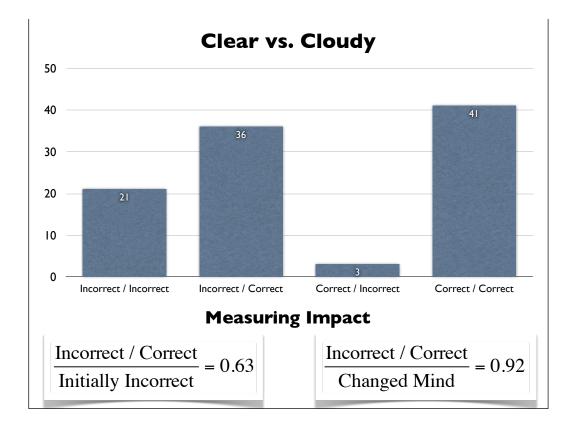
Now, some data from the summer course.

## **Clear vs. Cloudy**

On a clear night, the temperature drops more than on a cloudy night. How do clouds "insulate" the earth?

- A. They trap warm air near the surface of the earth.
- B. The condensation of water vapor releases energy.
- C. They block the transmission of thermal radiation to space.

And note: Didn't address this explicitly. Just did a series of related experiments. Got a chance to explore and discover, and discuss.





Podcasts?



Help us come up with ideas...