



# U-1 L-3 (cont.)

p.9

## - Comparing, or controlling

- some experiments are simply comparisons

- ▲ ex. Jenner

- compared "tested" child w "untested" children

- ◆ "untested" children often died

- compared "tested" adults w "untested" adults

- ◆ "untested" adults often died

p.10

## • controls

- ▲ would be used today

- ▲ cowpox pus for some people; water for some

- water group called control group

- ▲ scientists know for sure that any difference was due to the cowpox pus

## - avoiding biases

- opinions based on past experiences

- ex. Jenner

- ▲ biases of people kept them from accepting

- ▲ " " Royal Society!

- ▲ over time, Jenner's work accepted

- millions saved; now called vaccination

- everyone has biases

- ▲ scientists must ignore biases to make experiments

- ▲ " " " " " " conclusions

# U1 L-3 (cont.)

p.10

## - Verifying

- to repeat work & obtain same outcome
- vital step before outcomes widely accepted
- requires detailed description of exper. steps
  - ▲ good scientists must be good writers