Connecting with Basic Knowledge

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http://www.austincc.edu/mparker/talks/uscots2015/

What prior knowledge and experiences are we assuming our students have that some of them don't have?

Can we find some quick, meaningful, memorable ways to address these? The goal of this session is to help you identify some of these concepts and topics you have noticed among your students and, in a small group, make a plan for addressing at least one of those. We will draw on our experiences with Statway and show how we have used that to enhance all of our statistics classes.

- 1. (5 minutes) Background and motivation; what Statway has taught us
- 2. (10 minutes) Share some concepts/skills we have identified
- 3. (15-20 minutes) Share our solutions to bringing weaker students up to speed with these concepts/skills
- 4. (20 minutes) Small group discussions to brainstorm more topics;
- 5. (5 minutes) Share with whole group
- 6. (15 minutes) Plan an activity with your group to do with your own class on 1 topic

Examples of strategies we have used

- ✓ Starting with dotplots
- ✓ Comparing graphs
- ✓ Use of interactive applets
 (In HTML 5 and you can copy and upload these on your own website)
- ✓ Prerequisite Review Sheet
- ✓ Scaffolding questions in lessons/activities
- ✓ Connecting students to statistics contexts
- ✓ Make up data to fit a scenario
- ✓ Introducing categorical vs. quantitative data in hypothesis test context