

JITT Outcomes

What was memorable about their teaching?

Clarity (multiple)

Personalized subject

Convey complex material simply

Funny

Tough but fair

Structured

Simplify complex concepts

Engaged

Great problems

Challenging (multiple)

Rigorous

Excentric

Animated

knowledgable

Greatest challenges in the classroom

Different ability/preparation level of students

Determining if students are learning

Being consistent

Engaging the students

Making mistakes

Being likable

Reaching everyone

Managing depth versus breadth

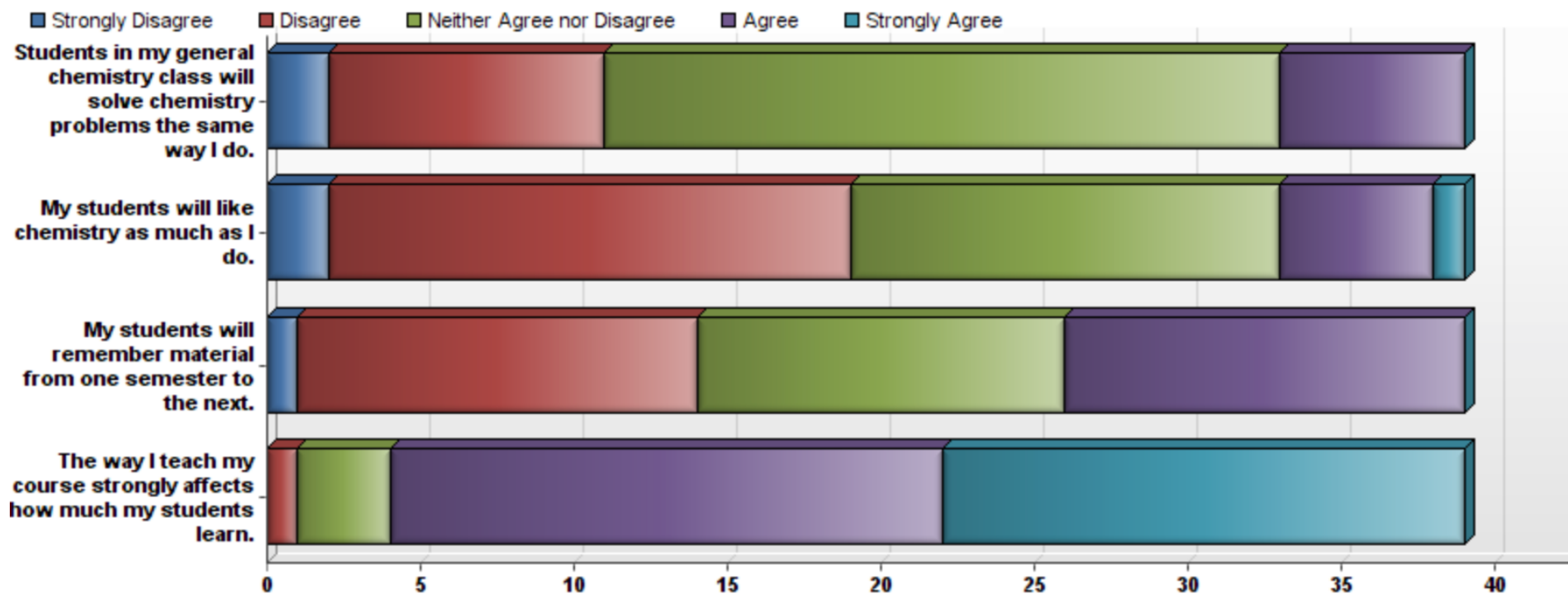
Effectively communicating the proper message

Teaching the right material

Time management

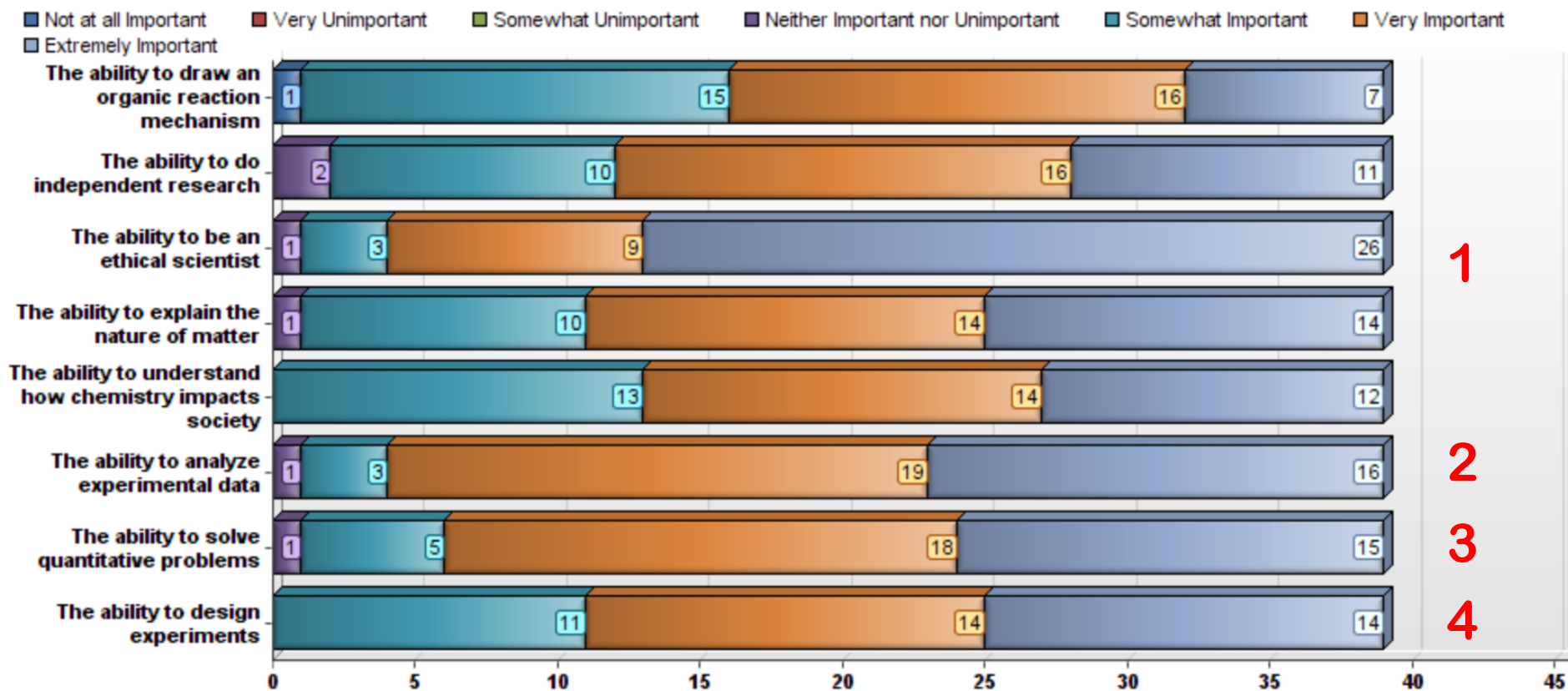
Moving too quickly in class

JITT Outcomes – Student Characteristics



What I do affects student learning
Students will remember material term-to-term

JITT Outcomes – Key Concepts in Chemistry



Discussion of JITT

JITT Outcomes – Student Characteristics

- How do you address the bottom 10%?
 - Is it o.k. to skip just because 90% got it right? Why not use this as an opportunity to go deeper?
 - Do DBER techniques motivate students to do self-remediation?
- How do you ensure that they all take the JITT quiz?
 - Carrots or sticks for participation
- Do students remember material from previous classes?
- How do you implement JITT?
- Are there any negatives about JITT?
- Are JITT questions review or new material focused?
- Why can't you use JITT some of the time rather consistently across the whole semester?
- How much time does it take to implement JITT?

Most memorable Professors

- Most Memorable Professors are
 - Energetic, enthusiastic
- Who were they?
 - (Advisors... Chemistry Teachers... High School Student
- Why did I ask the Question?
 - (a role model? To personalize it...
- Other words?
 - Clarity, money, engaged, rigorous
 - Does lecture well appear here?
 - But Lectures contain these characteristics, don't they?

Greatest Challenges in the Classroom

- Just-in-time teaching (JITT)
 - Let's unpack this 😊
 - A short questionnaire (often on a web interface) prior to class can frame the initial discussion in class
 - It motivates students to review material
 - It provides instructor a gauge of where students are in their learning
 - Must address the JITT quiz at the next meeting
- Flipped classroom (Editorial Question: Do you flip or flop?)
 - Content is delivered (usually in video mode) prior to lecture
 - Lecture is used for nearly 100% interactive/engagement activities, e.g. problem solving
 - Natural mode for lab classes
 - How do you lead students into accepting this (and other forms of active learning)?