First-Day Questions for the Learner-Centered Classroom

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“Do my students know why I ask them to learn this way?”

I said it aloud while reading the teaching evaluations from the previous semester. I had taken the plunge; I had moved substantially away from an almost entirely lecture-and-exam format in the second-semester geology course. Instead, many class sessions featured students working in small groups to apply content, which they first encountered largely through assigned reading, on to authentic geological problems.

Confronting a Problem

Each weekend, students completed an online assessment. Although low-stakes scores were provided for in-class and online assignments, these were primarily formative opportunities to guide both the students and me. Class sessions had been hugely more energetic and fun, at least for me. No dozing students, blank stares, and constant glances toward the clock. Students were doing things, and I was enjoying my interaction with them, guiding them when they were stuck and thrilled to contribute additional insights that they requested out of curiosity. My shorter presentations focused on topics that they were struggling with. Grades went up significantly.

So, why did these evaluations reveal so many signs of dissatisfaction? Why had my evaluation scores gone down while student achievement had gone up? The reason became clear as I read the written comments. The students were displeased with the greater work. They were content to ignore reading assignments, assuming that I would lecture over the content that was important. They were content not to review information and construct knowledge except by cramming the night before exams. However, in my class they needed to come to class prepared to do in-class assignments with their peers. Moreover, they had to be reviewing and applying what they had learned weekly for the online assessments. There were a few
comments about how much they had learned in the class, but for most students the cost seemed too high. Clearly, although I adopted what I was convinced was a more successful pedagogy for my students, the learners were so used to other approaches that they really did not know what I was doing and, more importantly, why I was doing it. Today, I realize that this is typical, but at the time, I did not know about resources (like Felder and Brent, 1996) to show me how to stay on track. What should I do?

**Getting Student Buy-In**

As the next offering of the course approached, I thought about what to do differently. Sure, I could make the workload more manageable—focus more on the learning outcomes by covering less content, assigning more succinct and purposeful reading, and giving clearer and shorter assignments and assessments to provide opportunity for reflection. However, was not the real problem that the students did not understand why I taught the course in this apparently unfamiliar style?

I planned to start the first day with a summary of the research on active and reflective learning. That would show them that I knew something about teaching and not just about geology and that they were really taking a “state of the art” course. Wouldn’t they then see that everything I was having them do was really for their own benefit as learners?

As I outlined what I would say and what graphs I would show, I could not help but think that I was really missing the point. What I was planning somehow brought back from childhood memory the admonition of my parents to eat my vegetables. Just because it was good for me didn’t make the food taste better; I still didn’t like to eat some things. Wouldn’t it be the same for the students? What I needed was a way to engage them to see that how I taught the course mattered to them; that learning this way helped them accomplish goals that were important to them.

**The First-Day Questions**

On that anxious August day, I greeted the students and after a minimum of predictable first day review of the syllabus, I projected this text on the screen:

> “Thinking of what you want to get out of your college education and this course, which of the following is most important to you?
> 1. Acquiring information (facts, principles, concepts)
> 2. Learning how to use information and knowledge in new situations
> 3. Developing lifelong learning skills.”

It was a gamble—I had no idea how they would respond. I encouraged them to chat with their neighbors. Then I polled them. Two hands went up in support of option number 1. Twenty-one hands rose in support of option number 2. The remaining 13 students selected the final option. We talked about each one, with advocates for each stating their case. The two students who favored acquisition of information revealed that it was not so much that this option seemed most important but that it was most basic. They saw the list as hierarchical, and although they thought application of knowledge was more important than memorization, they felt that they had to master the factual information before they could use it. This led to further discussion of why learners needed to meet all three of these goals, even if we each held one as being more important than the other two.
Editor's Note:  

The last word in this, the first issue of the Forum for the fall semester, sounds the theme: being prepared. Preparation and being prepared, like everything else, means not just one thing, but many. In her AD REM column, Marilla Svinicki does what a number of authors in this issue do: she questions received wisdom and arrives at what may be better thinking. Does it always make sense for students to read the textbook before coming to lecture? Maybe not, Marilla says; maybe skimming it would be a better, then reading it later when lecture or class has framed the outlines of what's most important.

Ed Nuhfer’s DEVELOPER’S DIARY takes yet another view of being prepared. Ed homes in on the quality of preparation. Almost all faculty come to class prepared, as they understand preparation. They know their stuff; they’ve organized what they plan to say. It may be, though, that attending more aggressively to what we are discovering about how today’s students learn matters just as much as “knowing your stuff.” If student learning is the goal of teaching, and if, year after year, a faculty member attends to how students learn and shapes classroom instruction to make the most of how they learn, shouldn’t that increased value find reflection in the pay check? If there’s a disconnect between student ratings, student learning, and how the school looks at faculty performance, perhaps something’s out of whack.

Michael Harris and Roxanne Cullen feel much the same as Ed Nuhfer on this point. All the emphasis on learner-centered classrooms seems exactly right, but it has implications for the college and university mission statements seldom realized on paper or in practice, they say. They suggest that the syllabus for a learner-centered course could and should offer a pattern for what the mission statement of a learner-centered institution ought to look like.

Given how many aspects of higher education have become mentally and socially entrenched, making even obvious improvements sometimes proves difficult. Even if mission statements changed to reflect an aggressively learner-centered campus and a “learning organization,” what would it take to actually cause higher levels of student learning success? I ask this because very early in the life of the Forum, I interviewed a faculty member at a college in the east who had seen the light on student learning and made radical revisions in how he taught. Instead of straight lecture, he began using all kinds of group work, discussion, and problem-based approaches. His students hated it, and they hammered him when it came to student evaluations. Whether he was a master of the new approaches or not, he was on the way to improved teaching and greater student learning. Sadly, students’ dissatisfaction counted more with his promotion and tenure than what he was trying to accomplish and so, dispirited, he fell back to fulfilling students’ entrenched expectations, offering straight lectures and a few exams.

But what if students had been prepared in yet another way first? What if their entrenched expectations had been directly confronted and they’d been led to see that their ability to learn new material would actually be better served through other approaches? Since student satisfaction remains central whatever the mission statement and evaluation system, if student learning is truly important perhaps the first lesson needs to be about learning itself. That’s the approach Gary Smith has begun taking and it seems to be working. Let students see how they expect to be taught and then show them the path of a better way. The better way is the path we all seek. Good luck on this semester’s journey. — James Rhem

Now I had them where I wanted them. I projected a new question on the screen:

“All three of these goals are clearly important. However, let’s think for a moment of how best to accomplish these goals. Learning is not a spectator sport—it takes work; that includes work in the classroom and work that you do outside of the classroom. So, of these three goals, which do you think you can make headway on outside of class by your own reading and studying, and which do you think would be best achieved in class working with your classmates and me?”

The polling was nearly unanimous that acquiring information was the easiest to do alone and that the other two goals seemed more complicated and would profit from peer and instructor influence. This, then, led to a discussion of how to pursue goals 2 and 3. These goals are not achieved by reading or listening to a lecturer—students must actively do things in order to learn. Students learn best (Davis, 1993) when they take an active role:

• When they discuss what they are reading
• When they practice what they are learning
• When they apply practices and ideas.

The need for active learning in class in order to reach their goals leads students to accept that they

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have to read and otherwise prepare before coming to class by making first contact with content on their own.

This discussion became a segue to explaining how the course was structured—that it was about their learning and achieving the goals that were most important to them. Rather than me lecturing over the assigned reading and leaving them
to fend for themselves on homework, they were going to come to class having read, and sometimes struggled with, the text. The problem-solving that would apply the reading content and develop logical hypothesis statements and testing would take place in class. By completing these assignments and the online assessments, they would always know whether they were mastering both the content knowledge and its application and relationship to how scientists know about the natural world. Moreover, I would be continually reviewing their progress, too, working with individuals where they showed lack of mastery and going back to material when most of the class showed evidence of confusion and misconception.

The Impact

The results that semester were dramatically different. Not only was the active classroom fostering better learning performance on exams and other assignments but also my teaching evaluations rose to their highest levels. Students actually complained if they thought I was lecturing too much. I have since used the first-day questions in every course I teach and at all levels for three years. The strategy has been shared with colleagues through faculty development workshops and I frequently hear back about their experiences. Some use classroom response systems (clickers) to maintain anonymity during polling. The results are very consistent: Students desire to accomplish the educational goals that come from deep learning. One toolbox of learning activities in order to assist a diverse group of learners to succeed.

Students may not have much experience with active learning or expectations placed upon them for their learning. The first-day question activity is important for getting student buy-in to why active-learning strategies are used, and to the partnership responsibilities of instructor and student. Without this introductory dialogue, the expectations of coming to class prepared, working with peers in class, and completing frequent assessments of learning may be foreign to students and seem like too much work compared to listening to lectures and regurgitating facts on exams. However, once students acknowledge the linkage between their goals and the implemented learning methods, they have a new appreciation for why learner-centered instructors do what they do and learners come to value these methods so long as they are used effectively and they can measure their own learning.

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