



I like to use these talks to present one idea, one idea that anyone can simply implement. In this talk, I'll talk about how I set up a "salon" style event at which students gave me feedback and ideas for incorporating life science topics in the class.



Folks think of me as the Little Shop of Physics guy, which I am, but my day job—what I get paid for—is teaching large intro classes.



This is an invite to a Physics & Life session for students. The format was simple: We sat around a room and simply talked about ideas. I served as moderator.



This is a quote from a student. I'd expected to get ideas from students, but I didn't expect the affective gains that I saw. The sessions were much appreciated by students, and they showed students that I cared about their interests and how to make the class better match them.



Here are some of my notes, showing ideas that students presented and discussed.



I got to hear how students talk about certain concepts, such as energy and free energy. I could then match my class presentations to how they speak about the concepts. The students in the class are in the biological sciences, for the most part. The way they discuss concepts is a reflection of how they talk about things in their classes. So this helped me present information coherently with other disciplines.

Another invite, with a specific topic.





More effective were wide open topics like this. Question: What are things that animals can do that, truly, are superpowers? I got a lot of great discussion on this.



Once in a while, I had sessions in which I just brought my dog in and let folks play with him. These were informal sessions at which students talked about their lives, their concerns. I got a lot of good ideas from them about the class.





Example of topic students told me about: Emperor penguins can have feathers that are colder than the air temperature due to radiation.



A dolphin that senses electric field.s Vibrissal crypts—normally have hairs, that sense motions in the water. But they lose the hair, keep the sensors.



Doing chemical work like in the liver. Structures overlying the pigment reduce reflection, increase absorption.

