

Meanings Conveyed by the Same Word According to Different Speakers

Sample Word	Elementary School Teachers	Middle and High School Teachers	Biomedical Scientists
<i>Activity</i>	<ul style="list-style-type: none"> • Exploring; making discoveries; having fun • Part of lesson where students participate • Set of events that are part of a lesson 	<ul style="list-style-type: none"> • Something to manipulate in a lesson; discovery learning • Hands-on; involving movement; learning actively • Doing; hands-on type of discovery lesson 	<ul style="list-style-type: none"> • Motion; enzymes catalyzing reactions • Molecular activity • Specific function of a protein
<i>Model</i>	<ul style="list-style-type: none"> • Hands-on, physical object to manipulate • Demonstrating by doing 	<ul style="list-style-type: none"> • Acting the way you want your students to act to become good citizens • Similar to the actual “thing”; a representation 	<ul style="list-style-type: none"> • Replica of a system to visualize interactions • Outline of what might happen in a process • A simplification of a real phenomenon
<i>Abstract</i>	<ul style="list-style-type: none"> • Not representational, as used in art • A concept that is difficult or not obvious 	<ul style="list-style-type: none"> • Out of the ordinary; not connected to a prior experience • More intellectual; about making deductions • Brief synopsis of research paper 	<ul style="list-style-type: none"> • A summary of a work and its importance • Short synopsis • Summary of experiments

Figure 5d.

Tanner, K.D., Chatman, L, and Allen, D. Approaches to Biology Teaching and Learning: Science Teaching and Learning Across the School–University Divide—Cultivating Conversations through Scientist–Teacher Partnerships. *Cell Biol Educ* 2(4): 195-201, 2003. <http://sepal.sfsu.edu/research-pubs.html>.