

Animations, videos and interactive tools to fill gaps in students' understanding of key agriculture concepts

## Online Teaching Tools for Undergrads

## ScienceofAgriculture.org

The free resources at ScienceOfAgriculture.org are aimed at undergraduate students and are also appropriate for consumers, Extension agents, high schoolers, and other students.

Focus group interviews with general education faculty, agricultural sciences faculty, and employers identified content that students struggle to understand, processes that demand excessive lecture time to convey, and areas in which graduates are underprepared for the workforce. This content was addressed via multimodal learning tools that allow students and teachers to actively engage in inquiry and discovery—foundational elements in science.



As part of its design process, the team evaluated prototypes in soil and plant science classrooms using pre- and post-testing as well as small group discussions among students. Student input was also used to refine animation characters, add features, and adjust the level of the material covered.









**Sorption: A Close-Up View** 

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