

# Predict, Click, Depict!

Use this three-slide sequence to improve students' critical thinking and analysis skills in your courses. It's also a lot of fun!

In this clicker question sequence, first show the "Predict" slide and ask students to draw their prediction. Next, show them the "Click" slide and have them click in their responses. If the results are mostly correct, move on, but if not, ask them to discuss with their neighbors and then click in again. Finally, show the "Depict" slide to discuss the results with the class.

*Below are examples from three different disciplines.*

## Predict

## Click

## Depict

### Biology

How does amylase catalyze the hydrolysis of starch?

Draw what the reaction without amylase looks like, and what it looks like with amylase

Black – without amylase; Red – with amylase

Why do the data look this way?

### Anatomy & Physiology

When mice feel pain on a part of their body, they lick that part

Experiment: Researchers injected bark scorpion venom into the hind paws of the common house mouse and the southern grasshopper mouse; As a control, they injected 0.9% saline solution. Then they measured how long they licked their paws afterwards.

What data do you think they observed?

How is this possible?

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### Chemical Engineering

Two fluids are added to a mixer. After some time, the mixed fluids enter an evaporator where some of the fluid is evaporated off as a gas stream and some is removed as a liquid. Draw a flow chart for this process. Number each stream and label each device.

Which drawing do you agree with most?

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