

BOUNDARY OF UNCERTAINTY

COMFORT ZONE

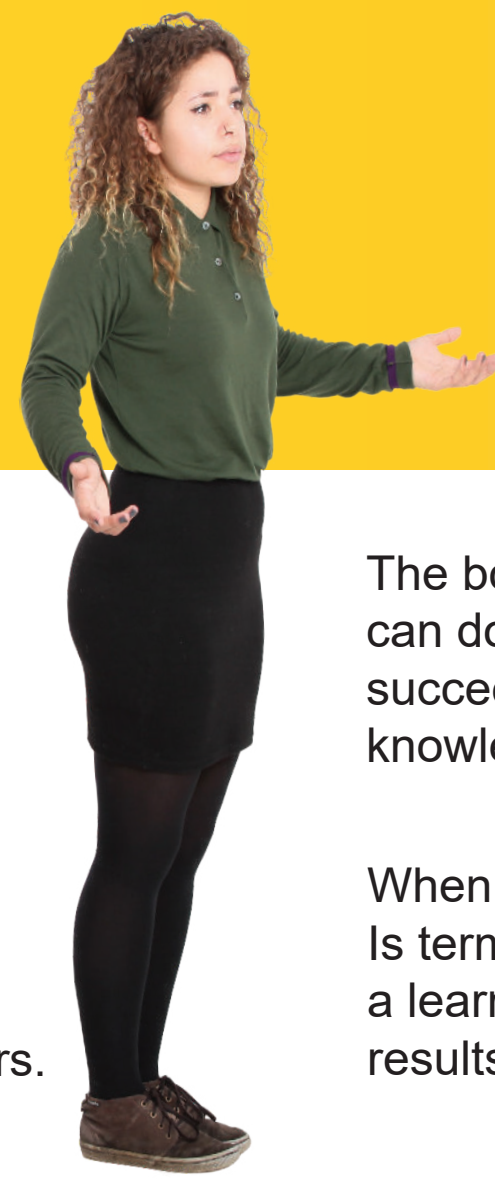
What a student can do now



Our goal is to design projects that intentionally take a student to the boundary of uncertainty and to provide multiple opportunities for collaboration with peers, mentors, and outsiders.

LEARNING ZONE

What a student can do with help



The boundary of uncertainty is at the edge of what a learner can do without help. At this boundary, a learner can only succeed by collaboration with someone who has a broader knowledge, experience or skill.

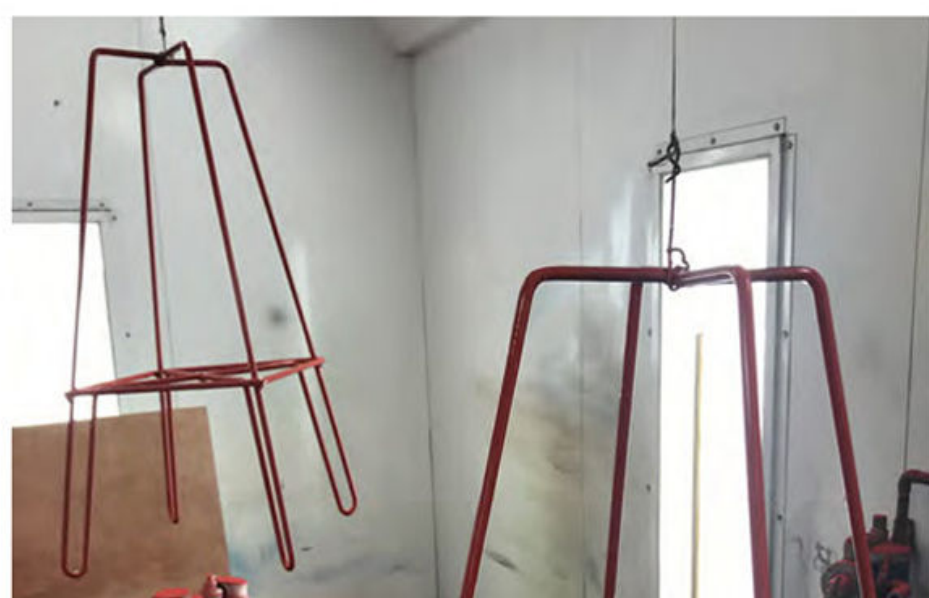
When someone supports the uncertain learner, the moment is termed a touch-point. Touch-points are important: relieving a learner's struggle too soon does not produce the learning results and relieving them too late causes anxiety.

ANXIETY ZONE

What a student can not do yet



Top Process



Base & Assembly Process

SECOND YEAR BAR STOOL PROJECT

Project description: Work as a team to design a bar stool using 5/16" steel rod for the legs and pick a unique material for the seat. Complete a prototype of your final design. Fabricate 15 versions of your design, find a venue, and sell your designs to the public.

NEED TO KNOW MOMENTS

- How to work with a team
- How to bend, cut, and weld steel rod
- Material properties and fabrication techniques
- Creating interchangeable consistent parts

- Use tools and fixtures in fabrication
- Find a sale venue
- Brand your product
- Advertise your sale
- Transport and set up the space
- How to handle the money

Collaboration at the boundary of uncertainty creates a self-confidence that can help push them through any problem with the right resources. It helps them take more responsibility for their own education.

“What a student can do in collaboration today they can do alone tomorrow.”

