



Teaching VEX IQ STEM Labs

VEX Masterclass

This VEX Masterclass will guide you through learning about how to teach VEX IQ STEM Labs in your setting. Throughout this class you will learn about planning, implementing, and assessing students through competition STEM Labs, so that you can begin teaching with confidence in your classroom.

This VEX Masterclass is great for someone interested in teaching with VEX IQ STEM Labs.

Estimated time for this class: approximately 3 hours

Note: Estimates are approximate, as a self-paced course, individual completion times may vary.

Chapter 1 – Introduction to VEX IQ STEM Labs

In this Chapter you will get started learning about the value and benefits of using VEX IQ STEM Labs in your classroom. You will be introduced to grounding research and the teacher support resources that are built into STEM Labs to help you as you are teaching. You will also learn strategies for teaching engineering and coding, so that you can teach with confidence even if you do not have a background in computer science or engineering.

Chapter 2 – Classroom Culture, Organization, and Engaging Parents

In this Chapter you will learn about the importance of establishing a classroom culture to set the stage for teaching VEX IQ STEM Labs. You will learn about ways to create a classroom of risk-takers, encourage high student engagement, emphasize creativity with your students, and how your classroom organization can support those goals. You will also hear about ways to engage parents and guardians in support of your students' learning.

Chapter 3 – Teaching Competition STEM Labs

Next you will move on to learning about the Learn - Practice - Compete format of a VEX IQ Competition STEM Lab, and how to best prepare to teach it. You will learn about the purpose of each section of the STEM Lab as well as strategies for implementing each section in the way that best meets your and your students' needs.

Chapter 4 – Assessment and Further Learning

In this Chapter you will learn about what student-centered assessment is, and a process for student-centered assessment that you can use while teaching VEX IQ STEM Labs. You will learn about the tools embedded into STEM Labs that will support you in implementing student-centered assessment effectively and the value in doing so for your students. The VEX Masterclass concludes with information about additional resources, like how to leverage PD+ features, to help you meet your teaching goals.