REC for Cortex

1.6 Activity: Vex Components

Name: _____ **Class/Period:** _____ **Date:** _____

Overview:

In this activity, you will identify and learn the purpose of each of the Vex components. You will become familiar with your classroom inventory system.

Duration:

25 Minutes

Materials:

Qty	Description
1	REC 1 Bundle
1	Engineering Notebook

Procedures:

1.6.1: Classroom Inventory System

An organized classroom contributes to your effectiveness and safety. Become familiar with your classroom's inventory system:

- How are the parts organized?
- What is the procedure for removing parts from inventory?

To help keep track of expensive components, you may be required to sign components out of inventory before using them.

You are responsible for any components you remove from the inventory system. Handle all components with care. If you have any questions, ask your instructor.

1.6.2: Identifying Vex Components

Remove the following components from your classroom inventory system and place them under the labels below. When you have all the components identified, ask your instructor to review your selections.

Backup Battery Holder	36-tooth gear

Flat bearing	Gusset

0.318” plastic spacer	Keps nut

Limit switch	8-32 x 3/8” screw (BHCS)

1.6.3: Engineering Notebook

Sketching is an effective way to communicate your design ideas to others. Sketches are a graphical representation of the physical object you are trying to portray. They can be as simple as an outline of the part or as complex as a three dimensional view of the part. They do not have to be exact or to scale - whatever is needed to get your ideas across. If the sketch helps others understand your design idea then the sketch is successful.

Make a sketch in your engineering notebook of each of the components you identified in this activity.

Questions:

Write the answers to the following questions on your question sheet. Add the completed question sheet to your robotics binder.

Question 1	Have you ever built a something using Legos or an Erector set? If so, how are these components different?
Question 2	How are these components similar?
Question 3	Which component would you like to know more about and why?