

# VEX GO Discovery Activity

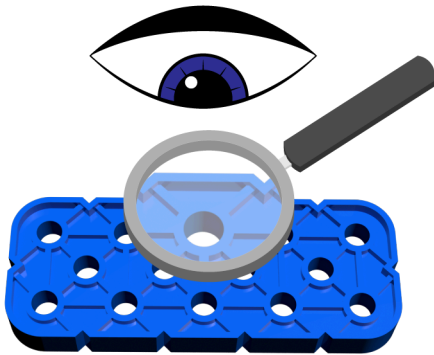
## Using the Discovery Activities with Your Students

The Discovery Activities can be used in many ways, as you are introducing your students to VEX GO. These activities are meant to offer a hands-on introduction to using VEX GO pieces through short, simple engagements to encourage exploration, curiosity, observation, and spatial reasoning. None of the activities require the use of a device, or any additional pieces from the kit, like pins or connectors. Through these activities students can become familiar with the pieces and how they relate to one another, so that they are prepared for building with VEX GO in subsequent lessons.

Here are some suggestions for using Discovery Activities with your students:

- Offer Discovery Activities as a follow up to the [Get Ready...Get VEX...GO! PDF Book](#), to give students a focused way to begin to use their kit.
- Engage students' observation skills with a Discovery Activity as part of Morning Work when students arrive each day.
- Help students think about how pieces can be used together with activities like [Architecture](#), to explore 2D design before engaging in 3D building.
- Use Discovery Activities like [Rotate It](#), [Pet Protection](#), or [Symmetry](#) as hands-on extension activities during math class for practice with concepts like angles, perimeter, or symmetry.
- Offer Discovery Activities as Brain Breaks throughout the day.
- Pair up students, or engage in a whole class exercise, to practice active listening skills with the [Follow Directions](#) activity.
- Introduce a measurement lesson in an open ended way with the [Made to Measure](#) activity.
- Explore perspective in art class or during Choice Time, with activities like [Stack 'Em Up](#) or [Flipping Flags](#).
- Use Discovery Activities to introduce a VEX GO Learning Center in your classroom, and have students keep track of their progress through all of the activities.
- Offer Discovery Activities during a mixed-group learning experience, and have your students introduce VEX GO to another class, by carrying out the activities together.

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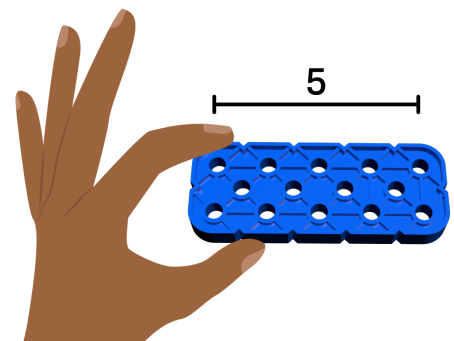
## Get to Know GO!

### Explore your VEX GO Kit!

Get familiar with your VEX GO pieces using your powers of observation.

## Step by Step

1. Lay your 12 Kit pieces out in front of you.
2. What colors are the beams? Name them all.
3. Now do a more detailed look at each beam. How many holes does each beam have? Are there any beams that have the same number of holes?
4. How many lines are there on the long sides of each beam? How many lines are there on the short sides of each beam?
5. What shape are the beams?
6. What do you notice about the pattern on the beams?



## ‘LEVEL UP’

- **Tell a friend!** - Choose one beam to describe in detail. Tell your friend about the size, shape, color, and number of holes on the beam, then see if they can find the right beam from your description.
- **Make a Letter!** - Use some of the beams to make the first letter of your name, or a friend's name. Tell someone the details about your letter - what color beams did you use? How many dots long are they? Where do they touch each other? How did you arrange them to make your letter?

## Pro Tips

- Pick up each beam and turn it around, looking at it closely. What else do you notice?
- Drawing pictures of your pieces can help you get acquainted with them! Try making a detailed drawing of one of your beams. What else do you notice when you are drawing it?

**Standard:** CCSS.MATH.PRACTICE.MP4 Model with mathematics