# Coding @ Park Grade 1 KIBOs Lesson #3

Materials: 5 KIBO kits, measuring tools, poster sticky, marker, Book slideshow

Students will…
- cooperatively code and operate a Kibo robot kit in groups of 3
- revisit specific coding blocks: start, end, forward, repeat, end repeat and number parameter.
- learn and experiment with the REPEAT block
- identify the most "*efficient*" way to code KIBO to travel the distance that is 3X forward
- Identify an event that happens every year at Park and code Kibo to represent that event.

## Essential Questions

How can I make KIBO repeat an instruction?
What events happen every year at Park?
How can I code KIBO to represent a repeating event?

## Hook/Activator
*Activate prior knowledge/Get students set for class*
*Does this activity grab students' attention and capture their interest?*
*Does this activity make a connection with prior knowledge?*

What kinds of events happen every year at Park? Write down ideas - get at least 6. Put them on a timeline.

**Students Gather Relevant Information**

*Which information will students need to access?*
*How will they access it?*
*How will you present it?  Using which modalities?*

OR

**Direct Instruction or Guided Practice**
*What will students be doing/experiencing/practicing?*

1)     Reteach use of the repeat block. (Have students act out the purpose of blocks??)

1)     Assign one annual event to each student robotic group.
2)  Work with partners to program KIBO to act out that event.
3)  Gather and set up the timeline.
4) Go through the year and have teams run their program for KIBO.

**Wrap-Up: Reflection/Summary/Synthesis**
*How will students capture the gist of the lesson?*
*What was important?*
*What have they learned?*
*How does today's learning fit in with what they have done*
*in previous classes or will be doing next?*

Students will complete a handout asking them to show/draw/write how they programmed KIBO to act out their "event."  Optional extension: record their reflections in the Seesaw app.