

Bar Graph Data Representation

Represent Data using AR Makr

Activity

Students use augmented reality in AR Makr app to represent data from a classroom survey. They construct a bar graph by using blocks to represent number values. They organize the data using colors and placement of the blocks. They place appropriate labels. To document learning, students take a video explaining their bar graph and interpreting the data.

Objectives

- Students read and interpret data from bar graphs
- Students construct bar graphs that represent data
- Students make connections between mathematics and everyday life
- Students use mathematical language to express mathematical ideas
- Students demonstrate interest and enjoyment in learning mathematics



Extensions

- Concepts of volume and capacity are explored using augmented reality
- Use augmented reality to visualize and represent solutions to non-routine problems
- Create a scale design of a community in an area of one square kilometer using augmented reality

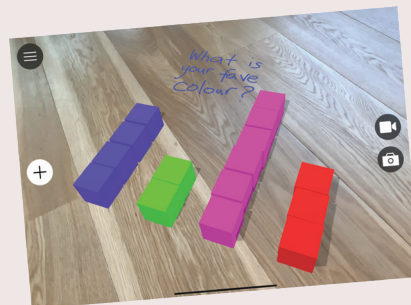
Have a go



- 1 Open AR Makr and tap **+** to create your own scene. Tap on **Start** .
Move your iPad to find a flat surface to place the graph. Make sure you are in a brightly-lit area. Once you have found an ideal location, tap where you would like the graph to appear.

- 2 Create a cube block that represents one response:
Tap **NEW** then choose . Tap , then use the slider to choose a color. Paint the cube with your finger. Tap **✓** when done.

- 3 Select the cube from the left side. Pinch to resize the cube. Position the first cube along the bottom line of the AR space. Tap **PLACE** . Continue placing cubes until you finish representing the data form the survey. You can place labels by tapping on **NEW** .



- 4 To record a video interpretation of your AR graph, tap **Ⓞ** then tap **📹**.
To take pictures, tap on **📷**.

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