Math & STEM Walks: Levels of Inquiry

Level 1

- Take virtual math or STEM walks using the *video library*. Each video is centered on a single question
- Use filters to select videos based upon teacher/student choice

  Filters include math teks; math topics; kind of place; specific location; broad themes
- Use the *interactive viewing guide* or adapt guide as desired in order to ensure that students practice inquiry skills

  The same viewing guide can be used for all math / STEM walk videos

Level 2

- **For groupwork & differentiated instruction,** assign student groups to watch different videos and have them present the key question and their takeaway in class
- **For building deeper curricular connections,** read "*Using EdPuzzle and talkSTEM videos to Engage Mathematics Students in School,*" a short article by a math teacher. Include your own learning extension questions related to your videos of choice
- **Opportunities for independent student learning** exist in the supplementary activity sheets included with many videos. These supplementary activity sheets are included in the videos' descriptions

  Note: For math walks at St. Philips School and Community center, there are also customized Polypad workspaces, like this one

Level 3

- Students and teachers take an in-person, app-guided walkSTEM tour at a site of their choice. More information *here*
- **For students creating their own walks,** teachers should model their creative product first and then ask students to create their own math / STEM walks, using their choice of format (live, guided or flyer or video or other). Use the creative guides included under *Educator Resources*
- Students and teachers take photos in their place of choice and annotate them with a math-relevant question. They go through the same creative guides included above and annotate their photos with their own stem/math questions.

  For more tips, read the short article "Using Photographs to Share Your STEMlens"
- Students can make short place-based math / STEM walk videos using free software such as Capcut, Canva, or your platform of choice

  Use the creative guides included as part of our Educator Resources

Levels of Inquiry progress in terms of time required. Teachers and students may start at any level. It is recommended that everyone start with exploration of the open-access Video Library

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