

Discussion Questions
Math in Action Video: Architecture
Architect – Eric Beck

Duration 4:29

Before Viewing the Video

To help your students enjoy and gain information from watching the video, consider preparing them by

- Giving students a purpose for watching
- Reviewing the following vocabulary terms:
 - Scale Drawing
 - Volume
 - Area
- Discussing: How would you use a scale drawing to create a floor plan of your house?

While Viewing the Video

Use the following times to stop the video and facilitate a meaningful discussion.

Pause Point #1: After the opening description of an architect's job. (Time index 1:34)

Discussion Points:

Synopsis: Mr. Beck talks about putting an idea for a building onto paper.

Questions:

1. Who are the different groups of people that architects work with as they plan a building?
2. Why does Mr. Beck enjoy architecture?

Pause Point #2: After the description of using scales in a drawing. (Time index 3:33)

Discussion Points:

Synopsis: Mr. Beck describes the math involved in architecture.

Questions:

1. What specific math concepts are used in designing a building?
2. What are the typical scales Mr. Beck uses for drawing a plan for a building?

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Pause Point #3: At the end of the video (Time index 4:29)

Discussion Points:

Synopsis: Mr. Beck reflects on the idea that understanding the concepts in math is important in this ever-changing world of technology.

Questions:

1. Why do you think that Mr. Beck believes that understanding math concepts is important?
2. What connections between math concepts and technology do you see?