

Shape of the World & Seeing is Believing from Life by the Numbers Video

Dr. Sarah's 1010: Introduction to Mathematics

Geometry of the Earth and Universe

How we measure and view the world around us and decide what is the nature of reality.

goals:

- Explore applications of geometry in everyday life.
- Identify geometric ideas/connections within local and global geographical regions.
- Communicate geometric information in written documents.

The people in the video:

American Actor & Director (narrator here): **Danny Glover**

British Artist and Mapmaker: **Nigel Holmes**

American Art Historian: **Sam Edgerton**

Mathematics. We'd all be lost without it. Literally. Without mathematics we'd have no maps, no globes, no idea what the world really looks like. From Renaissance paintings to major motion pictures, the world of mathematics plays a pivotal role.

1. What are the ways that the people talk about, explore or represent the earth throughout the video (what do they say about it, what are the analogies, visual representations...)?

List as many as possible.

2. What does geometry mean?

3. What are the challenges with maps and geometric representations?

4. What are the advantages of perspective geometry?

5. Identify an instance from the video of geometric ideas/connections within local (small-scale) and global (large-scale) geographical regions. List them as follows:

local (small-scale) region:

geometric ideas/connections:

global (large-scale) region:

geometric ideas/connections:

6. How does the industrial revolution connect?