

➤ Main Ideas, Key Points, Questions:

After watching the video segment, write down key points, main ideas, and big questions.

➤ Objective(s):

- *Graphically and mathematically determine the relative velocity between two objects moving in the same direction, in opposite directions, and at right angles to one another.*

➤ Notes:

During the video segment, use words, phrases, or drawings to take notes.

➤ Summary:

After watching the video segment, write at least three sentences explaining what you learned. You may ask yourself: "If I was going to explain this to someone else, what would I say?"

Answer the following.

1. In your own words, define frame of reference.

2. What does the term relative velocity mean?

3. Draw a vector diagram of a person walking on a moving sidewalk in the same direction of motion as the sidewalk.

4. A moving sidewalk at the airport moves about 1 m/s relative to the ground around it. If you walk at a speed of 2 m/s relative to the sidewalk, how fast are you moving relative to the ground?

5. Draw a vector diagram of a person walking up a descending escalator.

