

Will it Hit the Hoop?

Dan Meyer, 3-Act Task
Group Quiz

Act 1:

1. On your own:

a.

Is he going to make it? Can you draw me the path of a shot that will make it? That will miss it?



b.

How about now? Can you draw me the path of a shot that will make it? That will miss it?



c.

How about now? Can you draw me the path of a shot that will make it? That will miss it?



2. Work with a Partner or Team:

Watch the video. Which shots will go in the hoop? If your answer is “no”, predict why the ball won’t go in. Will the ball be short, long, or something else entirely?

A.

B.

C.

D.

E.

F.

G.

3. Discuss: What information/action would help you be surer of your answer?

Act 2: Analyzing the Data and Mathematical Modeling

4. **Frozen Strobes**: Which shots A. – G. will go in the hoop?

For each of the following still photographs, create a quadratic function model for each situation and use it to help you answer each question.

A. **Yes or No?** If your answer is “no”, predict why the ball won’t go in. Will the ball be short, long, or something else entirely?



B. **Yes or No?** If your answer is “no”, predict why the ball won’t go in. Will the ball be short, long, or something else entirely?



C. Yes or No? If your answer is “no”, predict why the ball won’t go in. Will the ball be short, long, or something else entirely?



D. Yes or No? If your answer is “no”, predict why the ball won’t go in. Will the ball be short, long, or something else entirely?



E. **Yes or No?** If your answer is “no”, predict why the ball won't go in. Will the ball be short, long, or something else entirely?



E

F. **Yes or No?** If your answer is “no”, predict why the ball won't go in. Will the ball be short, long, or something else entirely?



F

G. Yes or No? If your answer is “no”, predict why the ball won't go in. Will the ball be short, long, or something else entirely?



Act 3: Conclusion

Once everyone submits their quiz we'll watch the “answers” to shots A. – G.

Which ones were you right about?

For the ones you got wrong, how did you get them wrong?