

Unit E1 • Potential and Kinetic Energy

HILLSIDE SORT

Below are clippings from Hamza's, Cooper's, and Olivia's homework assignments. Evaluate their sequences and captions and then answer the questions about their work.

Here is Hamza's sequence:

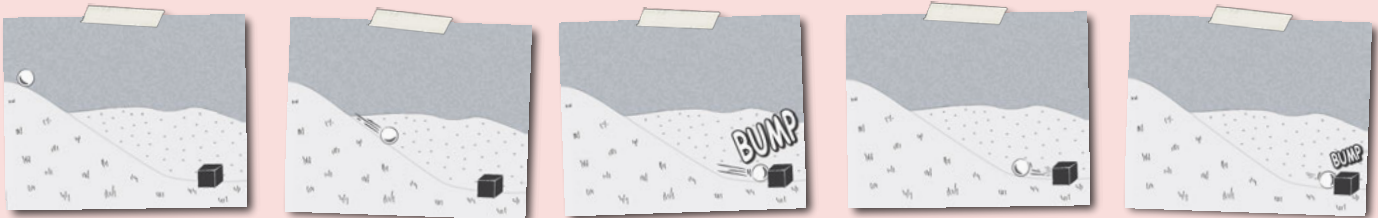


Here is Hamza's caption: The ball on top of the hill is still because of inertia. The ball's velocity increases as it goes down the hill. The block stops the momentum of the ball so it's not accelerating.

Would you change Hamza's sequence? yes | no

How would you improve Hamza's caption? _____

Here is Cooper's sequence:

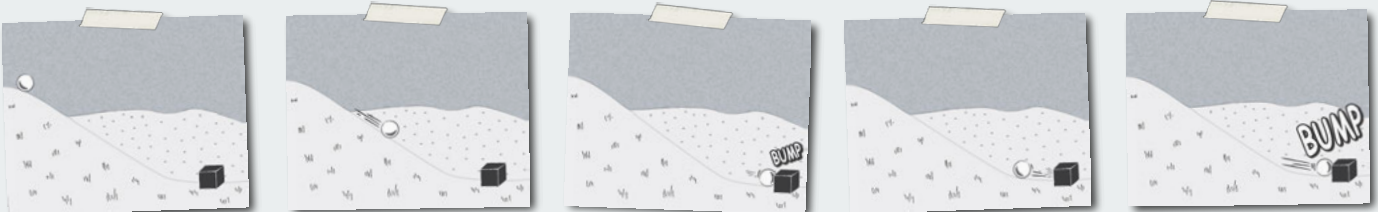


Here is Cooper's caption: The ball had lots of momentum, so there's a big BUMP because inertia would cause the block to want to stay still and the ball to keep rolling. The second time the ball hit the block there's less velocity because it did not roll down the whole hill.

Would you change Cooper's sequence? yes | no

How would you improve Cooper's caption? _____

Here is Olivia's sequence:



Here is Olivia's caption: The velocity increases and that is acceleration. The block doesn't move very much when it is hit because of inertia and friction.

Would you change Olivia's sequence? yes | no

How would you improve Olivia's caption? _____