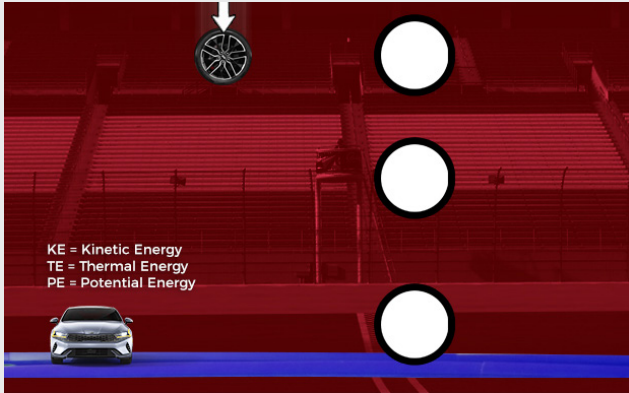
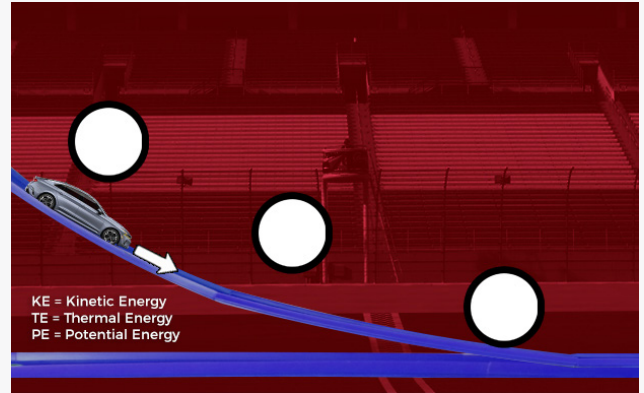


Student Worksheet

A) A wheel is dropped → No friction



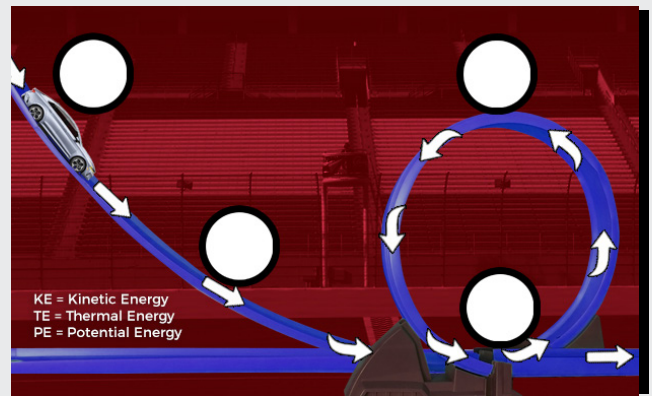
B) A car starts from rest and rolls down a hill → Include friction



C) A Kia car is traveling at 30 mph and then coasts up a hill and stops at point B → Include friction



D) A car starts from rest and travels down the track as shown → Include friction



E) So far, we've only discussed the potential energy due to gravity. This potential energy depends on the height of the object. In the video, Steve discusses the potential energy of the gasoline. This is another type of potential energy. Just like a rubber band that is stretched has elastic potential energy, gasoline has chemical potential energy. For the following problem, Jeff's race car is sitting there and then takes off quickly. Show the energy diagrams for this situation. → Make sure to include friction (HEAT).

