A Toyota with a velocity of 11.18m/s (25 mph) and a mass of 1,600Kg, crashes into a pole. A day later, a Subaru going 22.352m/s (50mph), that has the same mass of 1,600kg, hit the same pole.

Predict how much more Kinetic Energy the Subaru would have considering it was going twice as fast. Double? Triple? Quadruple? Etc... Explain why you made that prediction.

What was the Kinetic Energy of the Toyota before impact?
Equation:________________________________________
Work:________________________________________
Answer with units:________________________________

What was the Kinetic Energy of the Subaru before impact?
Equation:________________________________________
Work:________________________________________
Answer with units:________________________________

Was your prediction correct? Why or Why not? Explain...

________________________________________________
________________________________________________
________________________________________________
________________________________________________
________________________________________________