**Energy:**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Block: \_\_\_\_\_\_\_

Lesson 6 – Conservation of Energy Continued

Ex. Sylvie is mountain biking, she and the bike have a mass of 80 kg and is traveling at 17 m/s. How high up is she if her total energy is 19400 J.



Ex. Coltyn is on a giant swing ride that weighs 98 kg and swings to a height of 70 m. What is the maximum speed reached by the swing?



Ex. If Jarrod has a total energy of 16616 J when he is 20 m high and traveling 12 m/s, what is his mass?



Ex. Find the speed of the 3 kg ball at each point if it starts at rest.



A:



B:



C:



D:

