PHYSLETS ANSWER SHEET **ES1A5**

Energy / Set 1 / Animation 5

Name _____ Class _____

<Show all work on calculations. Include proper units. Explanations require complete sentences.>

1) Calculate the force needed to hold the block in its final position.

_____ N

2) Calculate the work done to compress the spring.

_____ J

3) Calculate the power exerted to compress the spring.

_____ W

4) If the block were released from its position against the compressed spring, how fast would it end up moving?

_____ m/s

5) If the block from problem 4) hits a patch of rough floor where the coefficient of friction is 0.22, how far will it travel before stopping?