Name: **Simple Machines Practice Quiz** SPH4C A machine may change the _____ of a force. 1. C. both A and B D. Neither A nor B A. direction B. magnitude 2. The axe is an example of a: A. lever B. pulley D. wedge C. screw screw 3. The screw is a member of which family of simple machines? A. the inclined plane family B. the lever family C. both A and B D. neither A nor B A machine constructed of two or more simple machines is called a _____ machine. 4. A. complex B. compound C. secondary D. all of the above 5. An inclined plane with a height of 1 m and a length of 2 m has an ideal mechanical advantage of: A. 0.5 B. 1 C. 2 D. It cannot be determined. The actual mechanical advantage is always ______ the ideal mechanical advantage. 6. C. the same as A. greater than B. less than D. It cannot be determined. The torque on a lever will ______ as the distance from the fulcrum increases. 7. C. stay the same D. It cannot be determined. A. decrease B. increase When a lever is in static equilibrium, the effort torque is the load torque. 8. A. greater than B. less than C. the same as D. It cannot be determined. V. A hockey stick is an example of a _____ class lever. 9. FE A. 1st B. 2nd C. 3rd D. It is not a lever. 10. What is the ideal mechanical advantage of a single moveable pulley? (as shown at right) A. 0 B. 1

C. 2 D. It cannot be determined.