FLINN SCIENTIFIC

Name_____

Joint Models Worksheet

Data Table

Model	Name of Synovial Joint	Example in the Human Body
A		
B		
C		
D		

Observations

In the boxes below, sketch the basic features of the synovial joint models observed in this demonstration.

A	**B**
C	**D**

Post-Lab Questions (Use a separate sheet of paper to answer the following questions.)

1. What are two examples of ball-and-socket joints found in the human body?
2. Muscles, bones, and joints all work together. Why do most joints have muscles attached to both sides of the bone that make up the joint?
3. Having examined the four synovial joint models, list three other common items that could be used to demonstrate the motion of a synovial joints as well as the joint that each item resembles.
4. How would our range of motion be different if the ball-and-socket joints in our hips were replaced with hinge joints?
5. Gliding joints are found between the vertebrae in the spine. Name at least two ways that gliding joints allow the back to move.
6. Arthritis is a condition that results in inflammation of the joints. (a) Having examined the four types of synovial joint models, describe the effects arthritis might have on a person. (b) Arthrodesis, also known as bone fusion, is a surgery performed on patients with arthritis—the surgery joins two bones where a joint was present. In what ways would this surgery help patients and in what ways would it hinder patients?