

Name: _____
Date: _____
Class/Period: _____

Classifying Joints:

Purpose: To classify the types of joints by studying bone movement

Materials: Diagram or model of a human skeleton

Procedure and Observations:

1. Make a data table including the type of joint, the bones involved in the joint and the type of movement the joint makes. Fill in the table as you make your observations. Use your human skeleton diagram for assistance.
2. Locate the following joints on the skeleton diagram.
 - hip joint
 - knee joint
 - elbow joint
 - neck joint
 - shoulder joint
 - ankle joint
 - skull joint
 - backbone joint
3. Indicate on the table which bones make up each of the joints you listed and record the information in your data table.
4. Study the skeleton and the types of movement table below.
5. Classify the joints according to the movements they allow. Record the information in your data table.

Types of Movement Table

<u>Type</u>	<u>Definition</u>
Twisting Motion	Twisting action or rotational movement of limbs
Circular Motion	360° circular movement of limb
Flexing-extending motion	Bending and straightening of limb, bending occurs in only one direction
Gliding Motion	Slight movement, flexible with limited movement
No Motion	There is no action, it does not move at all

Analysis and Conclusion

1. According to your observations, how many different ball and socket joints are in the human body.
2. How many different hinge joints are in the human body? Identify them by location.
3. Where are the gliding joints found?
4. Where are the fixed joints found?
5. How does having several types of joints help you move?

Data Table goes below here: