

# PSK4U KINESIOLOGY JOINT CONSTRUCTION ASSIGNMENT

## OVERVIEW

In a group of no more than 3, you are to construct a **model or replica of a synovial joint**. You may use any materials to assist you in this task, keeping in mind the exact anatomy of the joint that you are attempting to recreate (bones, ligaments, muscles, tendons, bursae, cartilage, etc).

You will present your model in a class anatomy fair.

The presentation will be brief (5-10 minutes) and informal (no notes).

## 1) RESOURCES

You are encouraged to use as many resources as possible to assist you in this assignment. Several anatomy and kinesiology-type textbooks exist that offer considerable detail. The internet will be of value, as well as actual replications of joints that are professionally constructed and used in doctor's offices or clinics.

## 2) EXPECTATIONS

The JOINT should...

- Move in the correct planes/axis according to the motion allowed by the joint;
- Contain all anatomical criteria in the correct position (bones, ligaments, muscles, tendons, bursae, cartilage, etc)
- NOT fall apart!
- Contain parts that are approximately to scale of actual dimensions
- Be presented with an accurate labeling of all structures (legend may be used)
- A bibliography of resources must be included (at least 3).

The PRESENTATION should...

- Briefly describe the type of joint, movement allowed at the joint, and primary structures associated to the joint (i.e. ligaments, muscles/tendons, cartilage/bursae, etc.)
- Discuss one common injury at this joint.
- Describe one current medical procedure for treatment (eg. arthroscopic surgery, ligament reconstruction, joint replacement).
- Be informal. NO NOTES ALLOWED. Illustrations only. Know your stuff.

**ANATOMY FAIR: TBA**