Module 3: High-Performance Machinery Topic 2 Content: Joints

Introduction

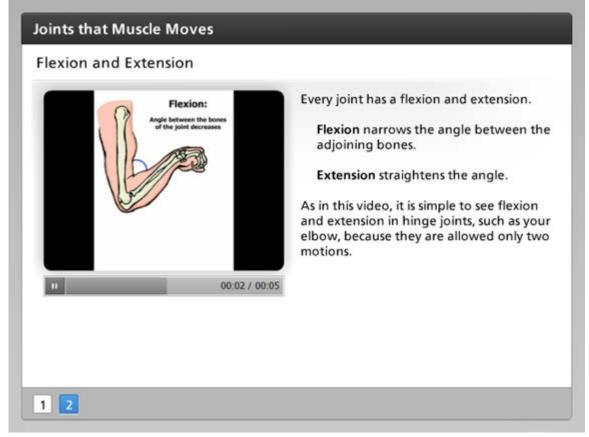
Joints that Muscle Moves	
Introduction	
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Flexion and Extension



Every joint has a flexion and extension.

Flexion narrows the angle between the adjoining bones.

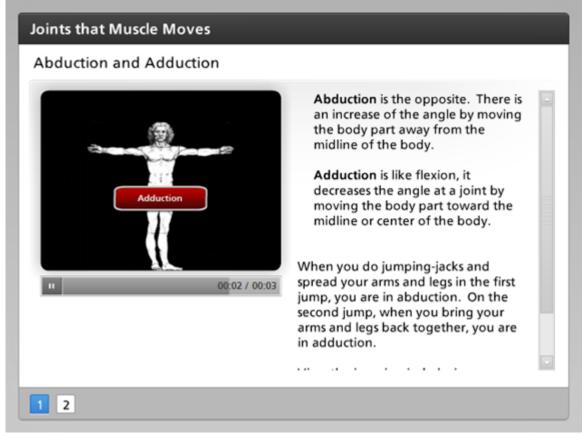
Extension straightens the angle.

As in this video, it is simple to see flexion and extension in hinge joints, such as your elbow, because they are allowed only two motions.



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Abduction and Adduction



Abduction is the opposite. There is an increase of the angle by moving the body part away from the midline of the body.

Adduction is like flexion, it decreases the angle at a joint by moving the body part toward the midline or center of the body.

When you do jumping-jacks and spread your arms and legs in the first jump, you are in abduction. On the second jump, when you bring your arms and legs back together, you are in adduction.

View the jumping jack during abduction and adduction in this video, then try doing a couple of jumping-jacks yourself.

