

## Using the Bone Tool

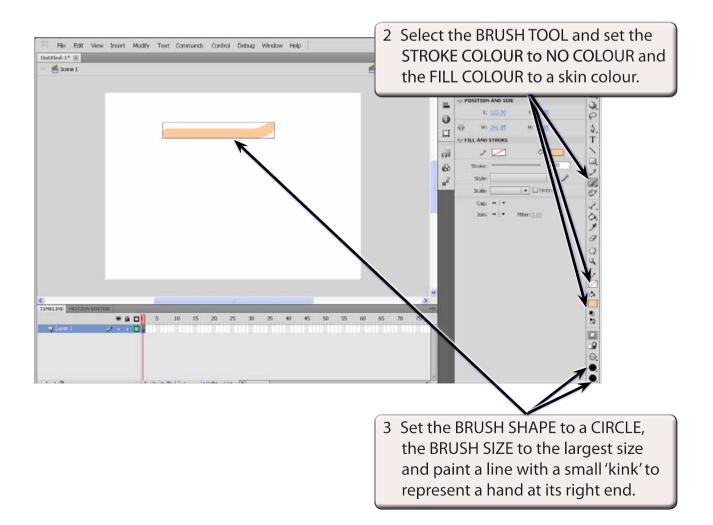
The BONE TOOL allows you to set hinges either within an object or between a group of objects. It can be applied to create human movements in arms and legs, robotic arm movements, crane operations, etc.

### The Bone Tool Basics

To illustrate the basics of the BONE TOOL, a simple shape will be converted into an arm.

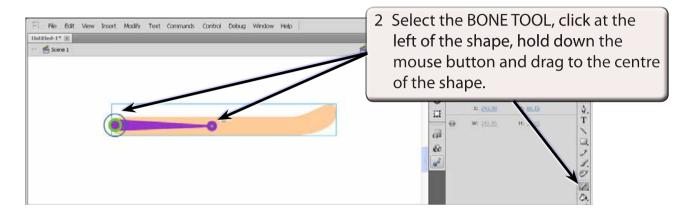
### A Drawing the Shape

1 Load Flash or close the current files and create a NEW FLASH FILE (ActionScript 3.0).



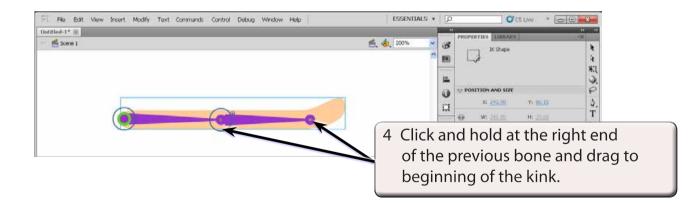
### **B** Applying the Bone Tool

1 Press CTRL+ or COMMAND+ to zoom the view to 200%.



3 When you release the mouse button the first bone is created.

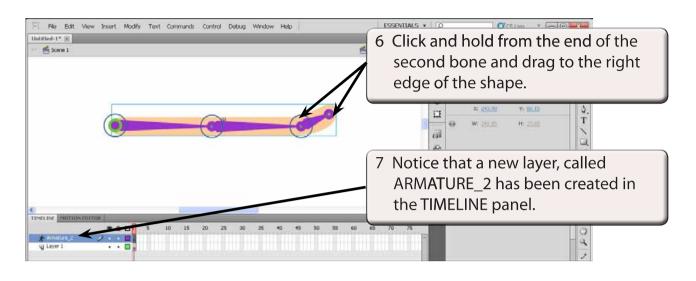
NOTE: This first section will represent a bone from the shoulder to the elbow.



5 Release the mouse button to create the second bone.

# NOTE: This second section will represent a bone from the elbow to the wrist.



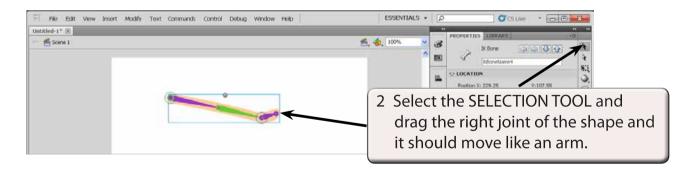


#### NOTE: All the bone sections are moved in the ARMATURE layer.

### C Using the Bone Links

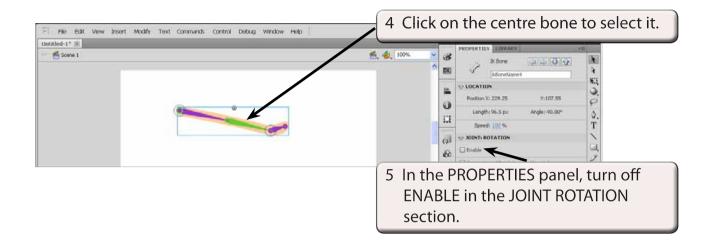
The bone sections have set a rotation point at the left of the shape and hinges (or joints) at the centre and near the right of the shape.

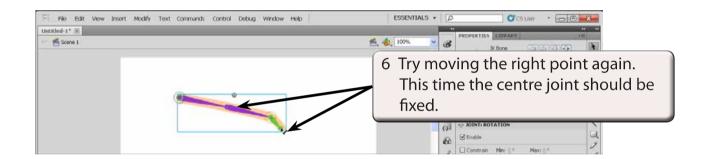
1 Press CTRL- or COMMAND- to return the view to 100%.

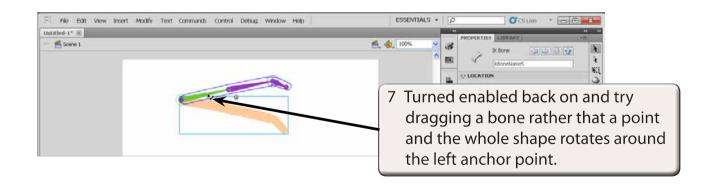


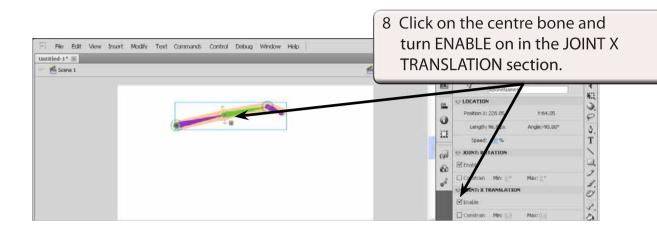
# NOTE: When the mouse pointer is over a joint, a bone symbol is added to the pointer to indicate that the joint can be moved.

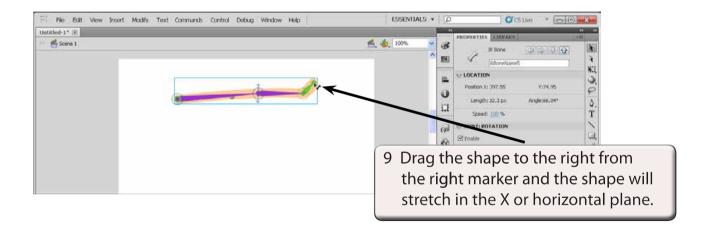
#### 3 The PROPERTIES panel allows you to control the movement of the bones.











10 Press CTRL+Z or COMMAND+Z to undo the stretches.

