

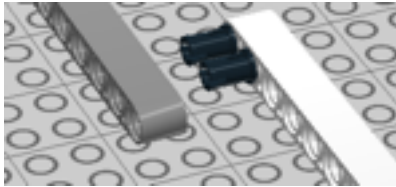
## BASIC BUILDING TECHNIQUES

### I. CONNECTING BEAMS TOGETHER

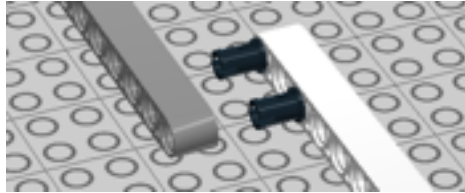
1. Connect two beams together using the different pin combinations.
2. Describe each of the combinations below the picture. (sturdy, loose, etc.)

**Prototype:** (noun) a first or early design example that is used as a model for what comes later.

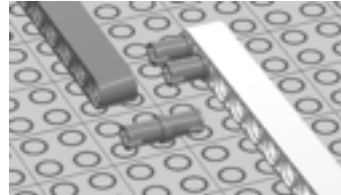
*black*



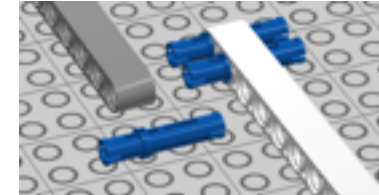
*black*



*gray*



*blue*



### QUESTIONS

1. What is the difference between the black and the gray pins?
  
2. Are the long blue pins more like the short black pins or the short gray pins? What would be an advantage of the long blue pins?
  
3. Find the long tan pins in the kit and test those. Are they more like the short black or short gray pins?

### II. CONNECTING BEAMS AT 90°

1. Find the T-brackets and L-brackets in your kit
2. Use the techniques from above to connect two beams at 90°
3. Try different combinations
4. Sketch one successful combination in the box on the right

