

Constructables

Construction Planning Game – Truss Bridge

Instructions:

1. Cut out the labels
2. Create your step-by-step program

 Design		
 Choose location	 Choose truss bridge type (Pratt, Howe, Warren)	 Make a build plan - Decide teams & assign roles
 Detailed Design	 Preliminary Design	 Safety and quality briefing
 Choose materials	 START	
 Construction		
 Choose who does what	 Take an “Under Construction” photo	 Take a lunch break
 Place concrete road slabs	 Measure the distance between bridge supports	 FINISH CONSTRUCTION
 Deliver materials	 Mark bridge location	 Clear construction area
 Set up construction site	 Tighten strings evenly	 SQUISH the beams tightly into the connectors
 Decide how you will build the bridge	 Build the bridge frame	 Organize materials
		
		
 Testing Phase		
 Load the bridge with cars	 Earthquake test (how does the bridge move?)	 Bridge opening ceremony
 Wind test (use a fan)	 Weight test	 Inspect tower after construction
 Evaluation		
 Reflection Phase	 What was hard?	 Group photo (#Constructables)
 What worked well?	 How can we improve the bridge?	 Award Certificates