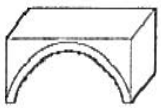
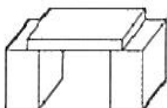
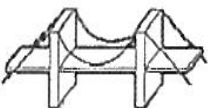
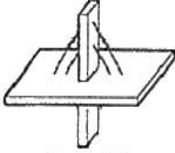
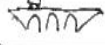
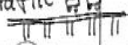


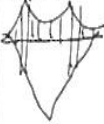


NOVA Build-a-Bridge Challenge

Name _____

Folder # _____

Types of Bridges	Size range 200' → 800'	Size range up to 250'	Size range 2000' → 7000'	Size range 500' → 2000'
	 Arch	 Beam	 Suspension	 Cable Stay
Site A: A 5,000-foot span across an ocean bay where huge ships come and go.	Yes <input checked="" type="radio"/> No Explain: Bridge too short	Yes <input checked="" type="radio"/> No Explain: Cannot go this distance without many posts blocking traffic	Yes <input checked="" type="radio"/> No Explain: Good for long distances + tall boats	Yes <input checked="" type="radio"/> No Explain: Not long enough
Site B: A 120-foot span across a freeway.	Yes <input checked="" type="radio"/> No Explain: Too fancy + expensive	Yes <input checked="" type="radio"/> No Explain: cheap, goes this distance.	Yes <input checked="" type="radio"/> No Explain: Way too big + expensive	Yes <input checked="" type="radio"/> No Explain: too complicated, big, expensive.
Site C: A 1,000-foot span across a river busy with barge traffic. slow large boats	Yes <input checked="" type="radio"/> No Explain: Span too long. Multiple arches would block barge traffic 	Yes <input checked="" type="radio"/> No Explain: Span too long. Would need many posts - block barge traffic 	Yes <input checked="" type="radio"/> No Explain: too expensive for this span	Yes <input checked="" type="radio"/> No Explain: right size right cost
Site D: A 700-foot span across a deep canyon gorge.	Yes <input checked="" type="radio"/> No Explain: Canyon walls support arch. right size 	Yes <input checked="" type="radio"/> No Explain: would have posts in canyon 	Yes <input checked="" type="radio"/> No Explain: posts in canyon, too big too expensive 	Yes <input checked="" type="radio"/> No Explain: Support post would go deep in canyon 