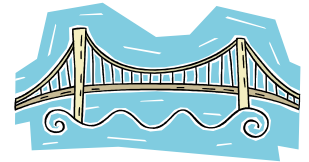


BALSA BRIDGE PROJECT



I. Specifications: (70 points possible)

- a. For specifications 1-7, 10 points lost for each one not met.
- b. For specifications 8, 2 points lost for each gram or part of a gram over 25.0grams

✓	Topic	Description	Pts
1.	Due Date:	– see specifications below.	10pts
NO EXCEPTIONS FOR LATE WORK			
2.	Materials /Construction	Must be constructed from balsa wood and glue – nothing else. ***See Below for details***	10pts
3.	Length	Total length less than or equal to 35 cm .	10pts
4.	Width	Total width greater than or equal to 6cm, and less than or equal to 8.0cm	10pts
5.	Height	Total height less than or equal to 20 cm.	10pts
6.	Span	Span between supports greater than or equal to 20cm .	10pts
7.	Clearance	Clearance under span greater than or equal to 7.0cm .	10pts
8.	Mass	Total mass less or equal to 25.0g (Minus 2 pts for every gram over)(Rounds up)	pts
		Total Points=	70pts

Criteria Violations...resulting in no testing or breaking of bridge:

- ☆ Your bridge must be **made of balsa wood and only balsa wood**.
 - ⊗ **Explanation:** If it is determined that your bridge is made of heavier or denser wood, then your bridge is not eligible to be broken and you will lose the 30 pts from the mass or weight the bridge would have held.
- ☆ Your bridge must have legs whose **lowest limit of clearance is 6.0 cm (spec. broken)**.
 - ⊗ **Explanation:** If you do not have legs on your bridge that are at the bare minimum of 6.0 cm, then your bridge is not eligible to be broken and you will lose the 30 pts from the mass or weight the bridge would have held.
- ☆ Your bridge must have **legs whose span is wide enough to stand on the bridge breaking apparatus**.
 - ⊗ **Explanation:** If you do not have legs on your bridge that have a span wide enough to stand on the bridge breaking apparatus, then your bridge is not eligible to be broken and you will lose the 30 pts from the mass or weight the bridge would have held.
- ☆ If your bridge is not in the classroom on the assigned due date, **then you will receive a 10 point late penalty for breaking one of the above 8 criteria/specifications**.
 - ⊗ **Explanation:** If your bridge is not in on time, you lose the above 10 points for not being on time. This is a one letter grade drop. Your bridge needs to be turned in by the due date so that the teacher can check the specifications before the bridge is broken in class. Not doing this project will result in a loss of 100 assessment points.
- ☆ **In addition:** If you are excused absent on the date the bridges are due, you must email a clear picture of your face and your bridge to your teacher by 10:00 am that day. The bridge that you bring to school must look exactly like the picture with no changes. Email your teacher several pictures from several angles. I would highly recommend that if you are absent on Friday, you have your parents bring your bridge to school for you. Your absence must be excused.
- ☆ **All Projects and students** will be dealt with and graded **on a case by case basis**, i.e. excused, unexcused, sickness...etc.

II. Bridge Engineering Value (B.E.V.): (30 pts possible)

Bridge Mass(g):		Meets Specifications:	/70pts
Maximum Weight Held (g):		B.E.V. Ranking	/30 pts
Total Points:			/100pts

Specification definition(s):

- 1. Length-
- 2. Width-
- 3. Height-
- 4. Span-
- 5. Clearance-

Picture Identification of Parameters for the Bridge Project:

- ☆ Length
- ☆ Height
- ☆ Clearance
- ☆ Width
- ☆ Span

