



Hands-On Science: Bridge Building

Your Goal:

With a team of 3-4 people, construct a bridge that will:

- #1 - Support the weight of a text book
- #2 - Allow an upright text book passage under the bridge
- #3 - Have fun and work together!

Your Schedule:

- 10 Minutes: Team Planning.
- 10 Minutes: Team Building
- 10 Minutes: Team Discussion
- 20 Minutes: Testing the Bridges

Team Discussion:

The Planning Phase:

- #1 - Did every group member give ideas? Were quiet team members asked to give their input?
- #2 - Did anyone dominate decision-making? Was there a conflict of ideas? Was it resolved?
- #3 - Did the team use the first strategy or create several options from which to choose?
- #4 - Were specific jobs assigned ? Did people do their jobs? Could this have been done alone?
- #5 - Was a “backup plan” created if the first plan didn’t work? Would you do it this way again?
- #6 - Looking back, could your team have utilized your planning time more effectively? How?
- #7 - During your planning, did personality traits emerge (Leader, debater, quiet, aggressive)
- #8 - On a scale of 1 (poor) to 10 (great), how would you rate your groups planning phase?

The Building Phase:

- #1 - Did the team follow the agreed upon plan set forth in the planning phase?
- #2 - Explain exactly what everyone did during the building phase. Did people stick to their jobs?
- #3 - Was the building process chaotic? How did the planning phase help or hurt your building?
- #4 - On a scale of 1 (poor) to 10 (great), how would you rate your groups building phase?