

PUZZLE

SUBJECT: 1421-INTRODUCTION TO SURGERY AND CSSD

UNIT - I - IMPORTANCE OF TEAM WORK

Teamwork Puzzle Activity: "The Bridge Builders"

Objective

Teams must collaboratively build a paper bridge that can hold the most weight using limited materials and clear communication. This activity highlights the importance of teamwork, planning, and creative problem-solving.

Instructions for Students

1. Form Teams:

- Divide into teams of 4–5 members.

2. Materials Provided (per team):

- 10 sheets of A4 paper
- 1 meter of tape
- 2 plastic cups (to serve as bridge supports)
- 1 small bag of coins or washers (for testing weight)
- 1 pair of scissors

3. Challenge:

- Build a bridge between the two cups (placed 20 cm apart) using only the materials provided.
- The bridge must support as much weight as possible (coins/washers) for at least 10 seconds.
- You have 20 minutes to plan and build.

4. Rules:

- Only the provided materials may be used.
- All team members must participate in planning and building.
- No external help or internet use.
- The bridge must be free-standing (not taped to the table or supports).

5. Testing:

- After 20 minutes, each team will test their bridge by gradually adding coins/washers until it collapses or fails.
- The facilitator will record the maximum weight held.

6. Debrief:

- After testing, each team will briefly explain their design and teamwork approach.

Reflection:

- What strategies worked best?
- How did your team communicate?

- What would you do differently next time?

Rubrics (10 Marks Total)

Criteria	Description	Marks
Team Collaboration	All members participated, shared ideas, and worked together	3
Planning & Organization	Evidence of planning before building, clear division of roles	2
Creativity & Innovation	Unique or effective design solutions	2
Communication	Clear, respectful, and effective communication during activity	2
Bridge Performance	Bridge holds weight for 10 seconds (bonus for most weight held)	1
Total		10

Facilitator Tips

- Observe and note examples of teamwork, communication, and problem-solving.
- Encourage teams to reflect on their process after the challenge.
- Use the debrief to reinforce the importance of teamwork in achieving goals.