

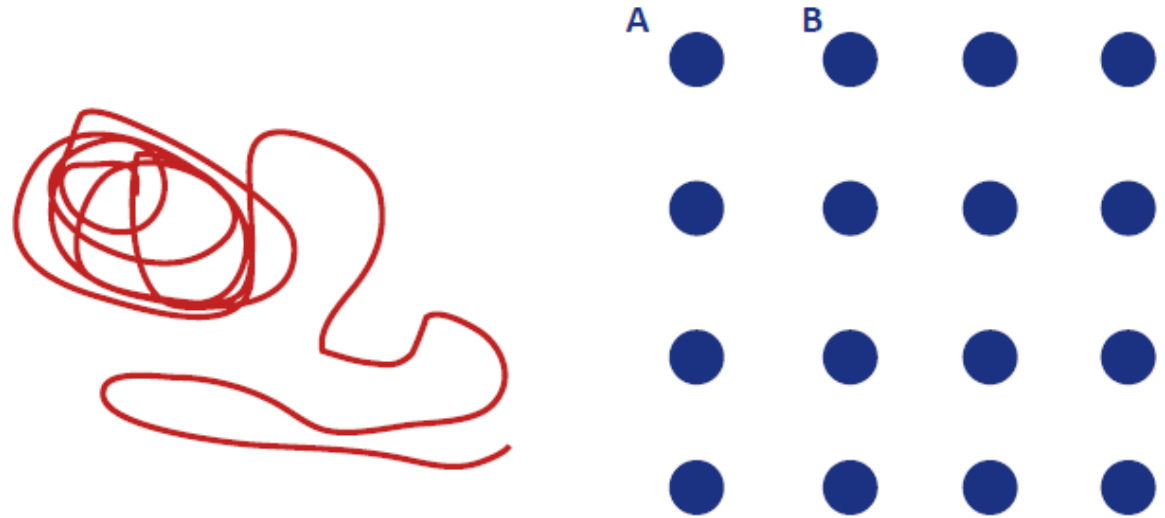
4-IN-4 PRESENTATION ON OUR GROUP PROJECT PLAN

Group 106



1 - INTRODUCTION TO OUR TOPIC

- We have a **pegboard** with 16 pegs in a 4 by 4 square array (see the diagram).
- We also have a piece of **string** that we want to put from the top left hand **peg A**, to the **neighboring peg B**, so that it **touches all of the other pegs on the way**.
- If the **string is never put diagonally between the pegs**, **how many different ways** can we string up the pegboard?



Why we chose this problem.

1. This problem has a logic and reasoning focus.
2. We engage with and use a systematic approach to count a set of possible outcomes.



2 - OUR PLAN

- **Achieve the aim of illustrating systematic problem solving with our example problem?**

- Understand
- Organise & plan
 - Buffer
 - Iterative work
 - Generic problem solving issue considerations
- Communicate & review

```
i = 0
while i < len(project):
    plan.improve()
    i += 1
```



- **Find creative solutions to illustrate systematic problem solving?**

- No idea contamination; individual problem solving before pooling ideas.
- Use module's problem solving strategies(eg: divide & conquer the problem's aspects, brainstorm for them).
- Generalise the problem(eg: what is "problem solving", not necessarily "systematic"?)

- **Work to do:**

- Presentations(4-in-4, storyboard)
- Screencast, testing(ethically).
- Addendum & final submission.



- **Info to gather, ways to do so:**

- Assignment spec. ----> loop
- Clarification of issues. ----> people
- Background to our problem. --->internet



- **Compare potential solutions/evaluate final one?**

- Informal discussion.
- Formal comparison by weighted criteria(eg: time/cost, originality).
- Critical thinking to avoid metacognitive issues(eg: familiarity bias).



3 - MANAGING OUR PROJECT

- What is the task-by-task schedule for getting everything complete?
 - Trello
- How will work be divided between group members?
 - Each member is given a role and that role involves certain responsibilities which they must carry out.
- What are the roles of each group member?
 - Chair & Timekeeper- Gerard
 - Scribe/Recorder – Tomas
 - Reader & Sceptic – Ben
 - Reviewer/Observer & Energizer - Sean
- How will the group roles be managed?
 - Each group member is assigned a role which they will keep during the course of the project.



4 - GROUND RULES

- **A summary of our group's ground rules.**

1. Only one person talking at any time.
2. No shouting.
3. Any conflicts will be expressed
4. Reason for absence.

- **How the group will be managed.**

- Gerard is the Chairperson of the group.
- He keeps us on track.
- He encourages participation.
- He checks that everyone understands.

- **How conflicts will be resolved.**

1. When a conflict arises, each member will voice their concerns.
2. The rest of the group then shall find a way to compromise.

- **What the consequences of group members not adhering to the rules will be.**

- Some possible misuse and loss of time.
- The person concerned are advised to cool off.

- **How the ground rules can be amended.**

- If the ground rules aren't sufficient then the rules can be amended.
- Group agreement will be sought first.

