

Riverton and District High School

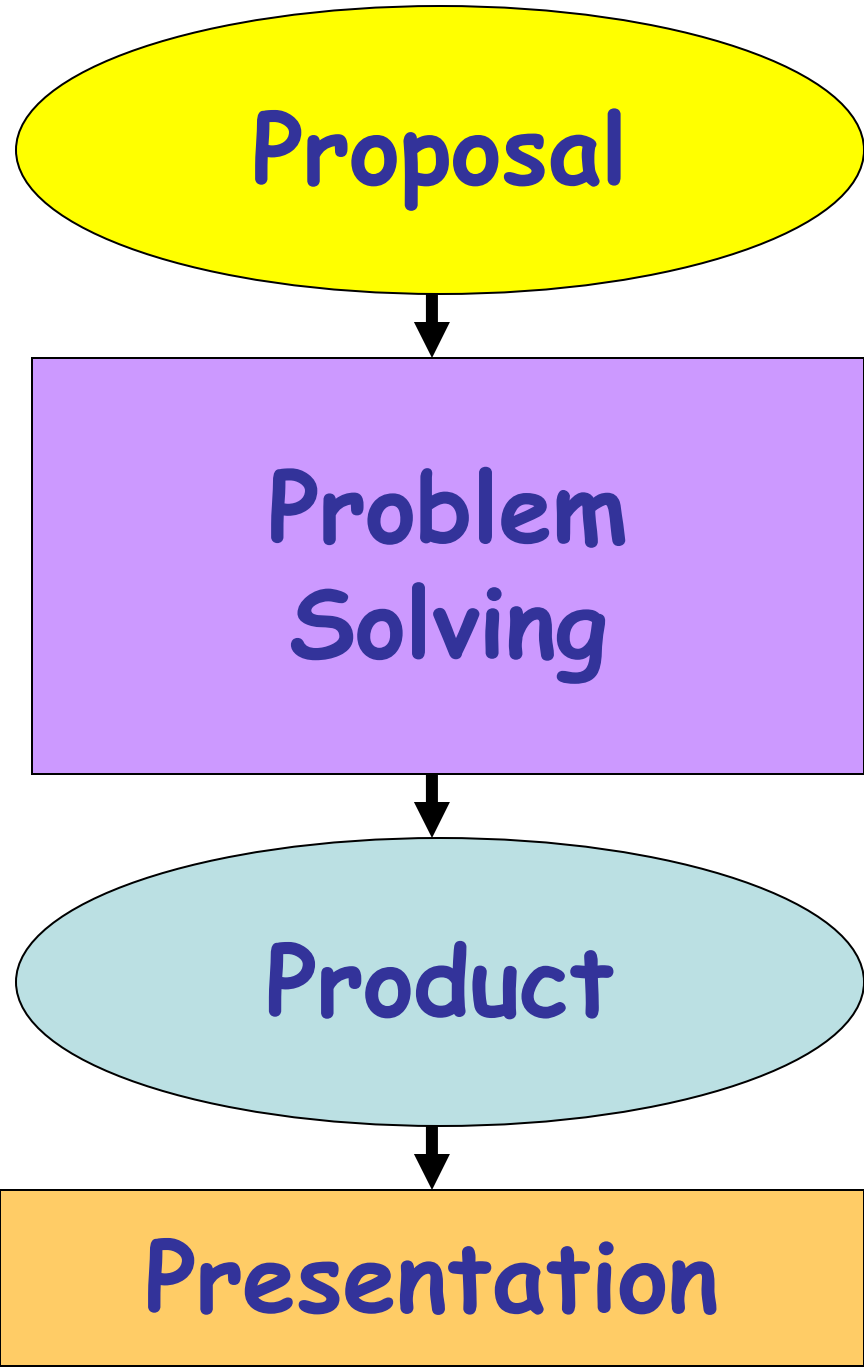


The Problem Solving Process

I promise to do very little talking again,
I need to go by 3pm



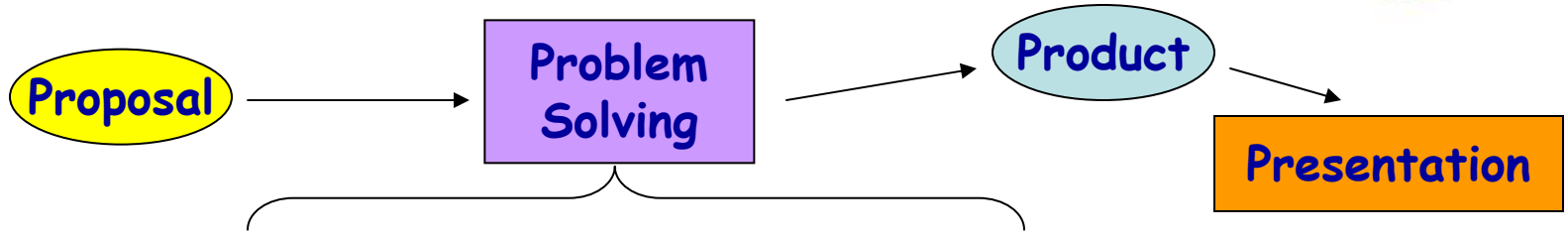
concept  creation



\$\$\$
Profit
\$\$\$

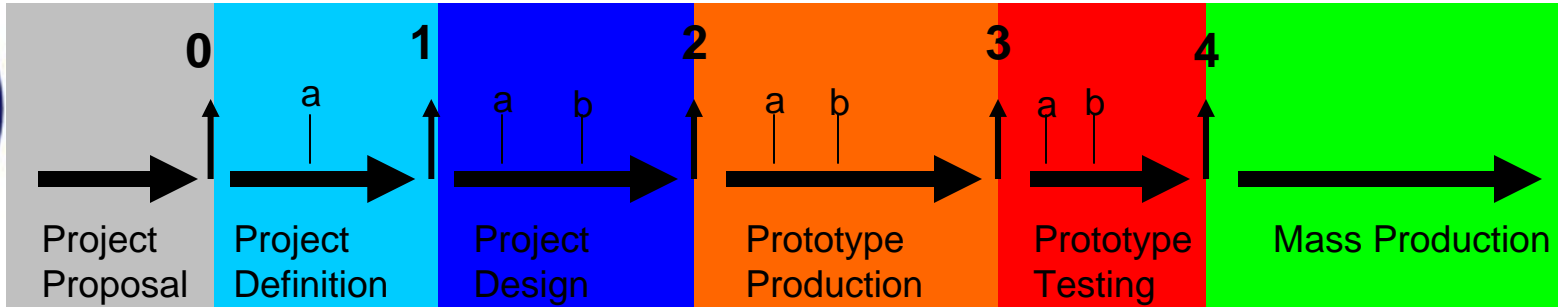


Phase Diagram



Project Acquired

Expo



2 weeks

1 week

2-3 weeks

6-8 weeks

2 weeks



Phase Reviews



- 0 – Project Proposal Phase
- 1 – Project Definition
- 2 – Project Design Phase
- 3 – Project Prototype Production
- 4 – Project Prototype Testing



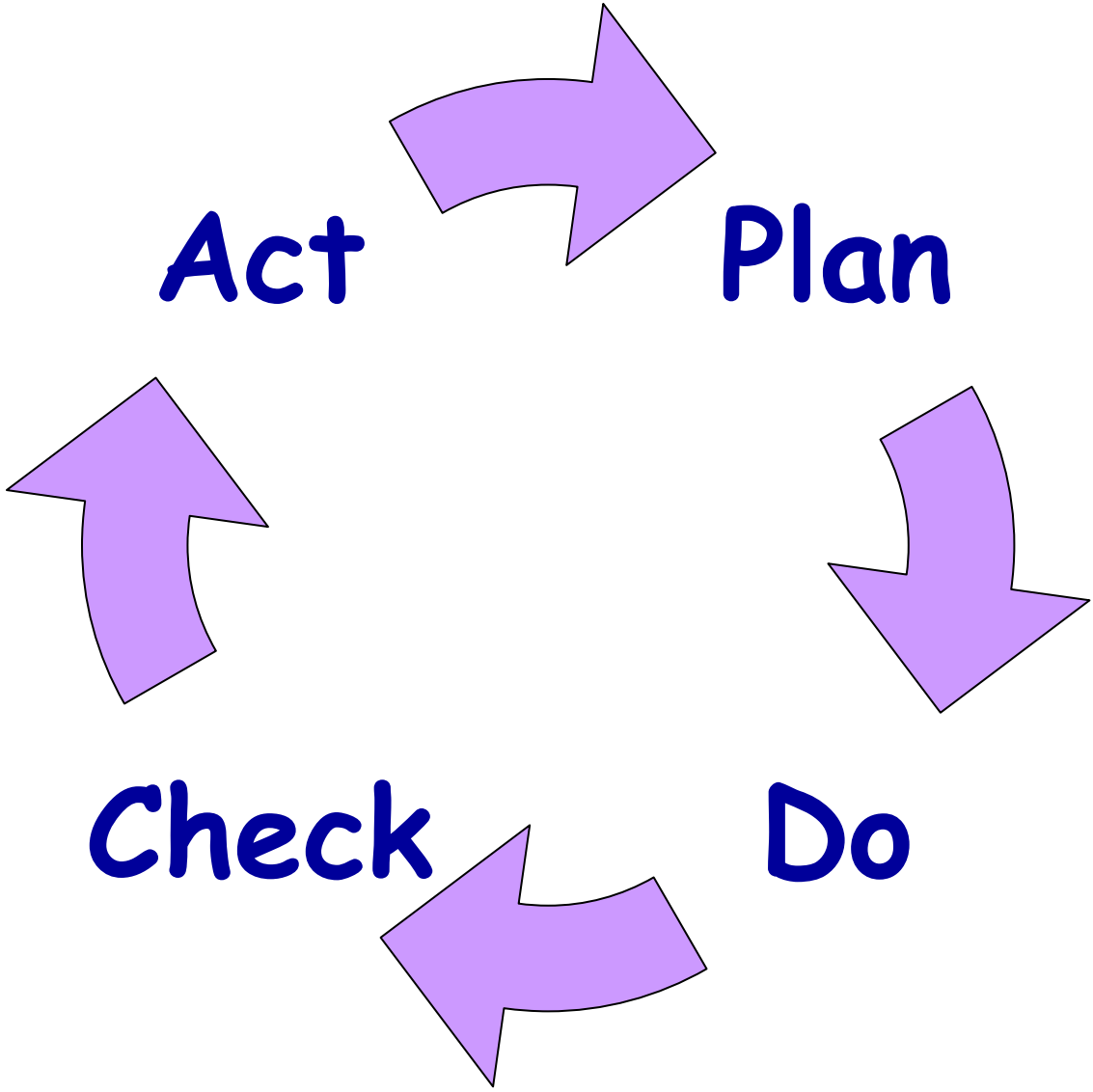
Assessment



- ✓ Phase 0 – Each student to have contributed to a proposal
- ❑ Phase 1 – Project team to have a ‘Project Definition’ sheet filled out to work from
- ❑ Phase 2 – The project design explained to a panel of students and teachers
- ❑ Phase 3 – Students and teachers to assess progress based on project definition and design
- ❑ Phase 4 – Panel to assess displays and knowledge at expo



concept creation

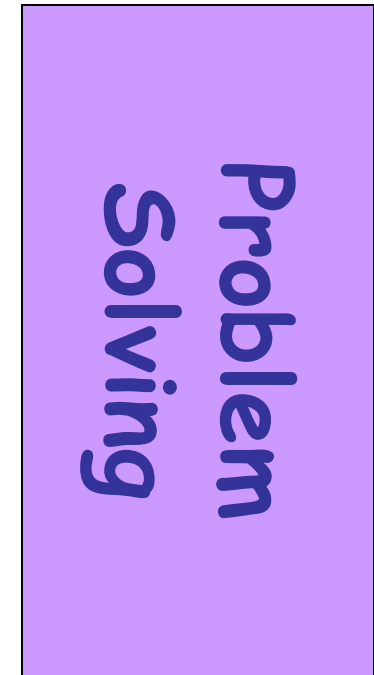


Problem Solving



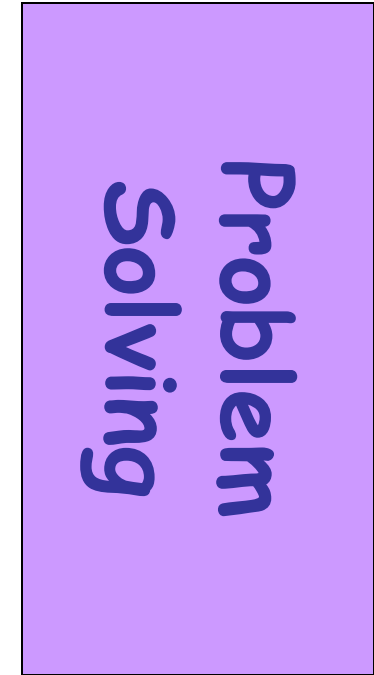
Project Definition

- As a group interpret the Proposal Document
- Define what the project is
- Start planning the design phase
- Fill in the Project Definition sheet – this is what we as teachers will use to help you keep on track – due end of Fridays lesson

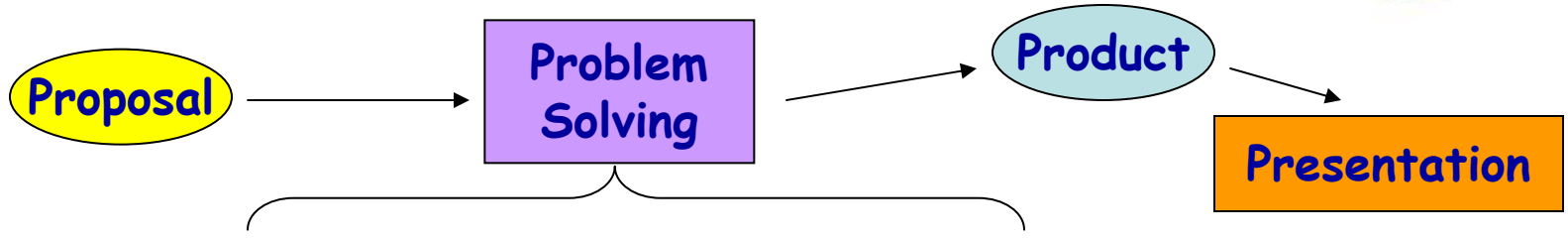


Assessment

- ✓ Phase 1 – Project team to have a ‘Project Definition’ sheet filled out to work from

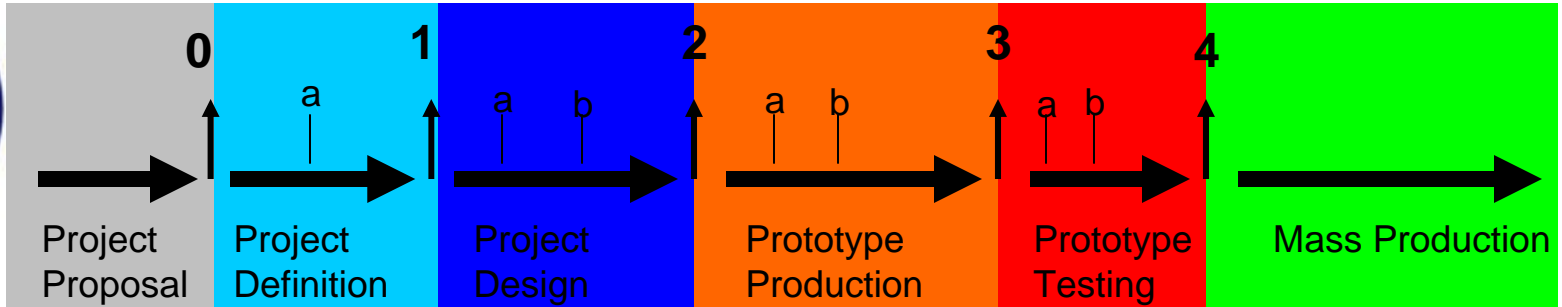


Phase Diagram



Project Acquired

Expo



2 weeks

1 week

2-3 weeks

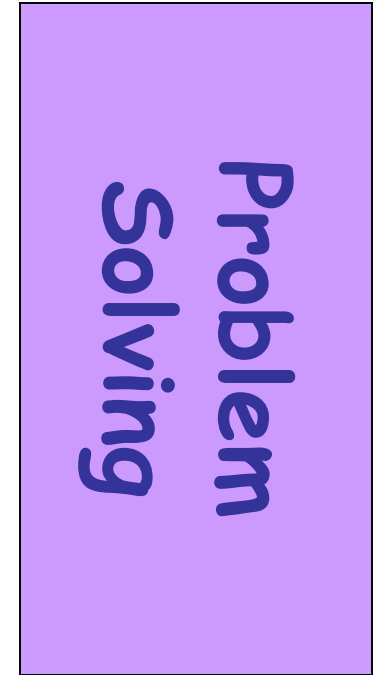
6-8 weeks

2 weeks



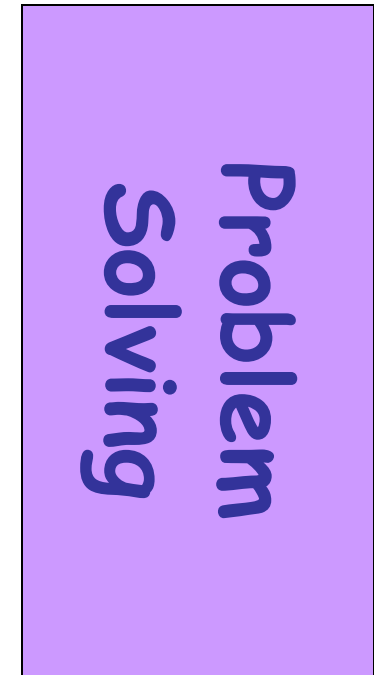
Project Design

- Start the investigation of what you need to complete your project



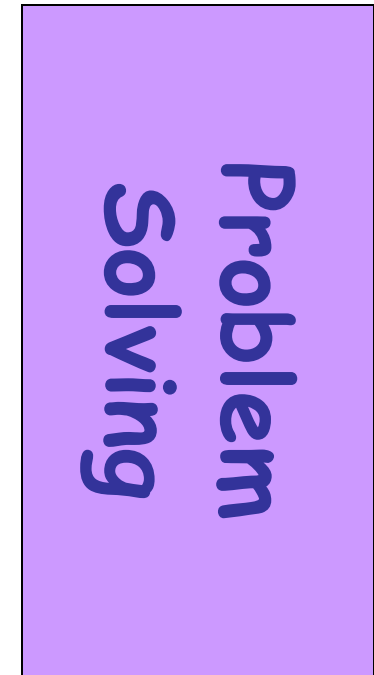
Project Design

- You will need to produce a budget (more on this later)
- You will need to complete a trade study (more on this later)



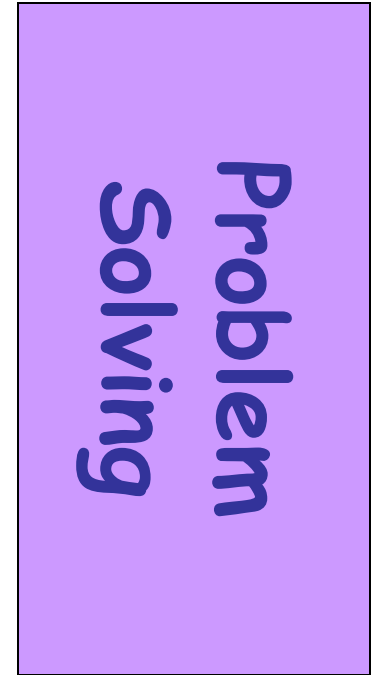
Project Design

- You will need to present your budget and project design to your board of directors before you can do any buying/building
- The board will be made up of teachers (teachers to appoint) and students (group to appoint)



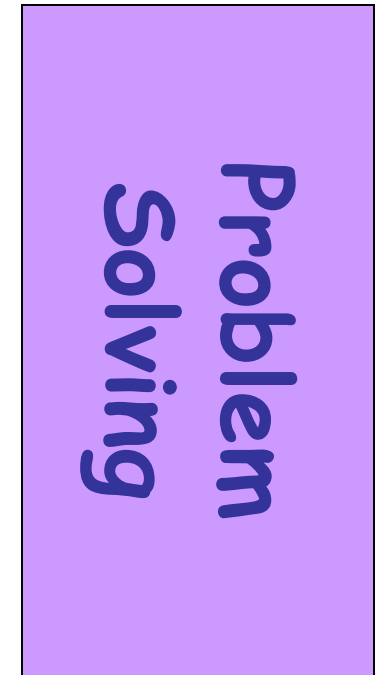
Assessment

- ✓ Phase 2 – The project design explained to a panel of students and teachers



Workshops

- ✓ OHSW (all)
- ✓ Project Management (all)
- Lean Manufacturing version 2 (all)
- Systems Engineering (all)
- Electronics (project based)
- Pro Desktop (project based)
- Engineering Fabrication (project based)
- Marketing (all)
- Budgeting (all)
- Making a Displaying (all)



Advise

- Plan
- Plan
- Plan
- And then
- Plan again

