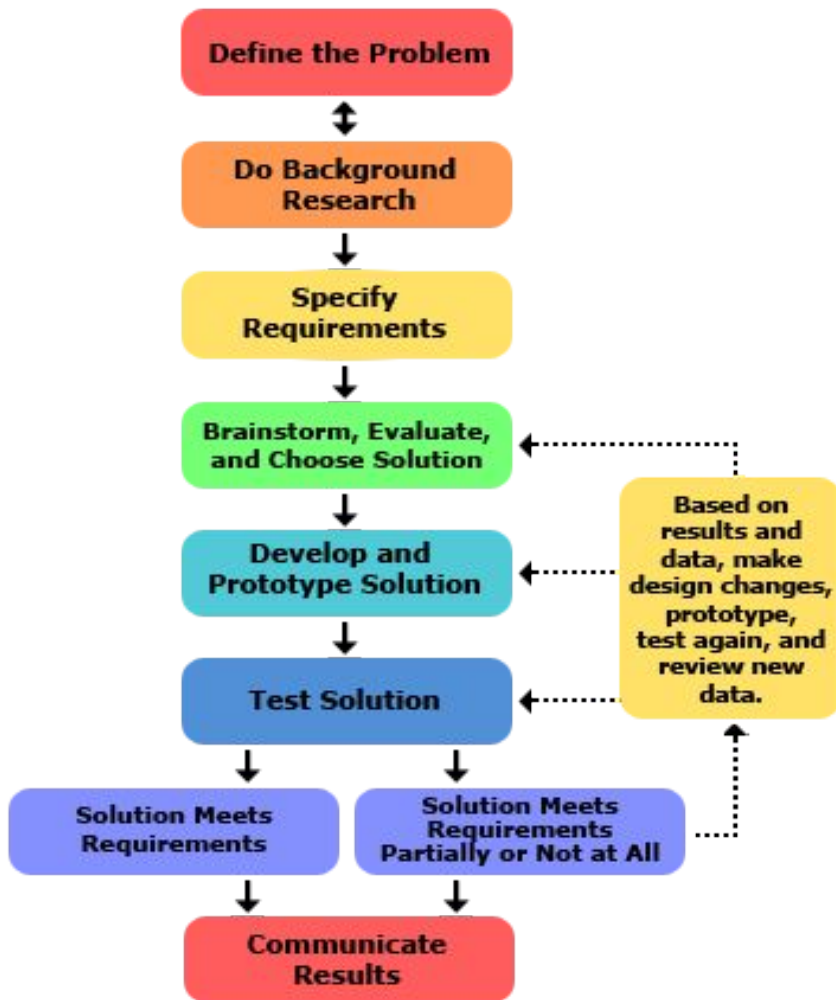


Intro to Project Selection

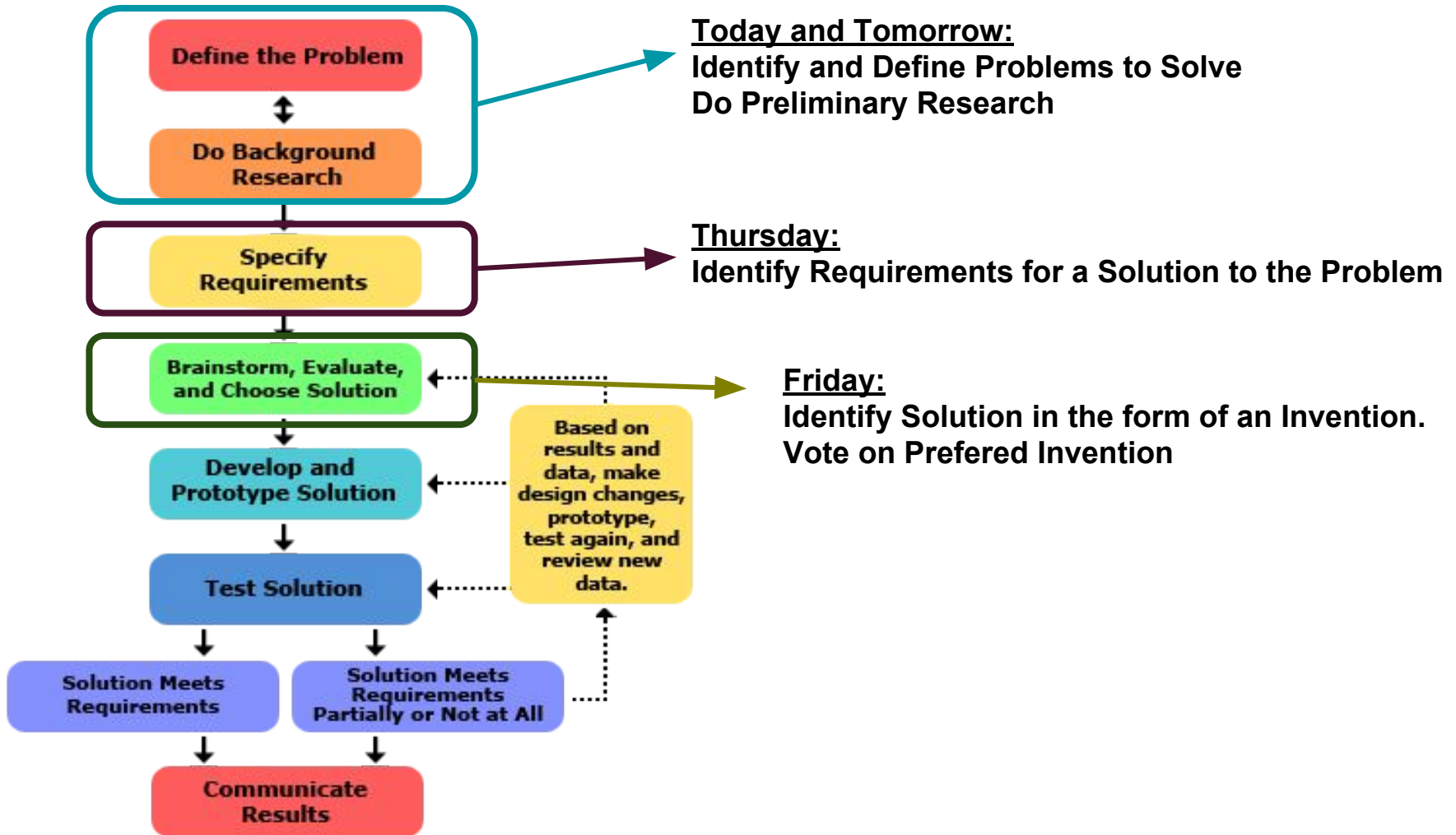
July 2018

Design Process



1. Identify a Problem.
ex. Hard to reach top shelf
2. Research issue, is there already a solution?
ex. Step stool exists
3. Could a better solution exist?
ex. User doesn't have good balance, step stool dangerous
4. What constitutes a solution to said problem?
ex. Something that enables user to grab things from top shelf without climbing up something.
(Constraints)
5. Brainstorm:
How about a 'Grabber'? Some sort of gripper on an extended handle?
6. Develop prototypes:
Tongs on a broomstick?
Attach a Servo Motor?
7. Test
Mechanism works, doesn't grip well though
8. Iterate (Design, Prototype, Test)
Laser Cut better gripper, add friction pads

Design Process



TuNe In

This year, we are looking for inventions that alter peoples' perception of the world around them.

- Inventions that encourage engagement and participation.
- Inventions that bring attention to something you care about.
 - Health
 - Education
 - Politics
 - The Environment
 - Social Justice
 - Community
 - Accessibility

What do you care about?

Think Differently, Engage, Create Something New



<https://www.youtube.com/watch?v=kiUnJ1d8vww&index=2&t=4s&list=PLCbj4y40DGBfPRFeO3EVDI29tCjYclo>
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Empathize with a bug list - What problems do *you* Care about?

Reflect on your daily experiences.

Write down all ideas and thoughts throughout each day.

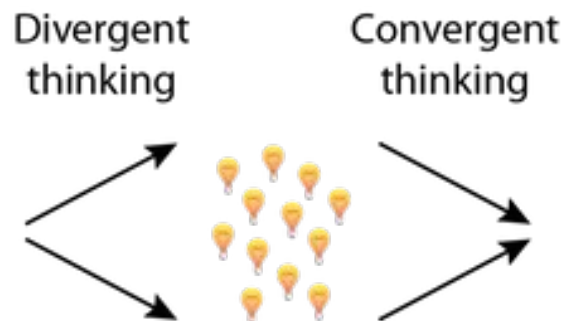
Talk to friends, family, acquaintances, and experts in a given field.

Explore current and emerging technology and products.

Stay aware of current events.

Set aside designated time for reflection and thinking about ideas.

Don't worry about a solution; focus on idea generation. We'll converge later



Empathize with a bug list

What bugs you? What bugs your friends and family? What problems does the community face?

A bug list is a tool for collecting ideas

1. What problems do your clients face?
2. How can problems we translated into opportunities?
3. Focus is on the client or end-user: what bugs *them*?

In collecting bugs, embody the learning personas

- Anthropologist – Observant
- Experimenter – Persistent
- Cross-Pollinator – Curious