

INTRODUCTION TO PROJECT MANAGEMENT



The rising STAR of Texas

Texas State University Library Staff Professional Development

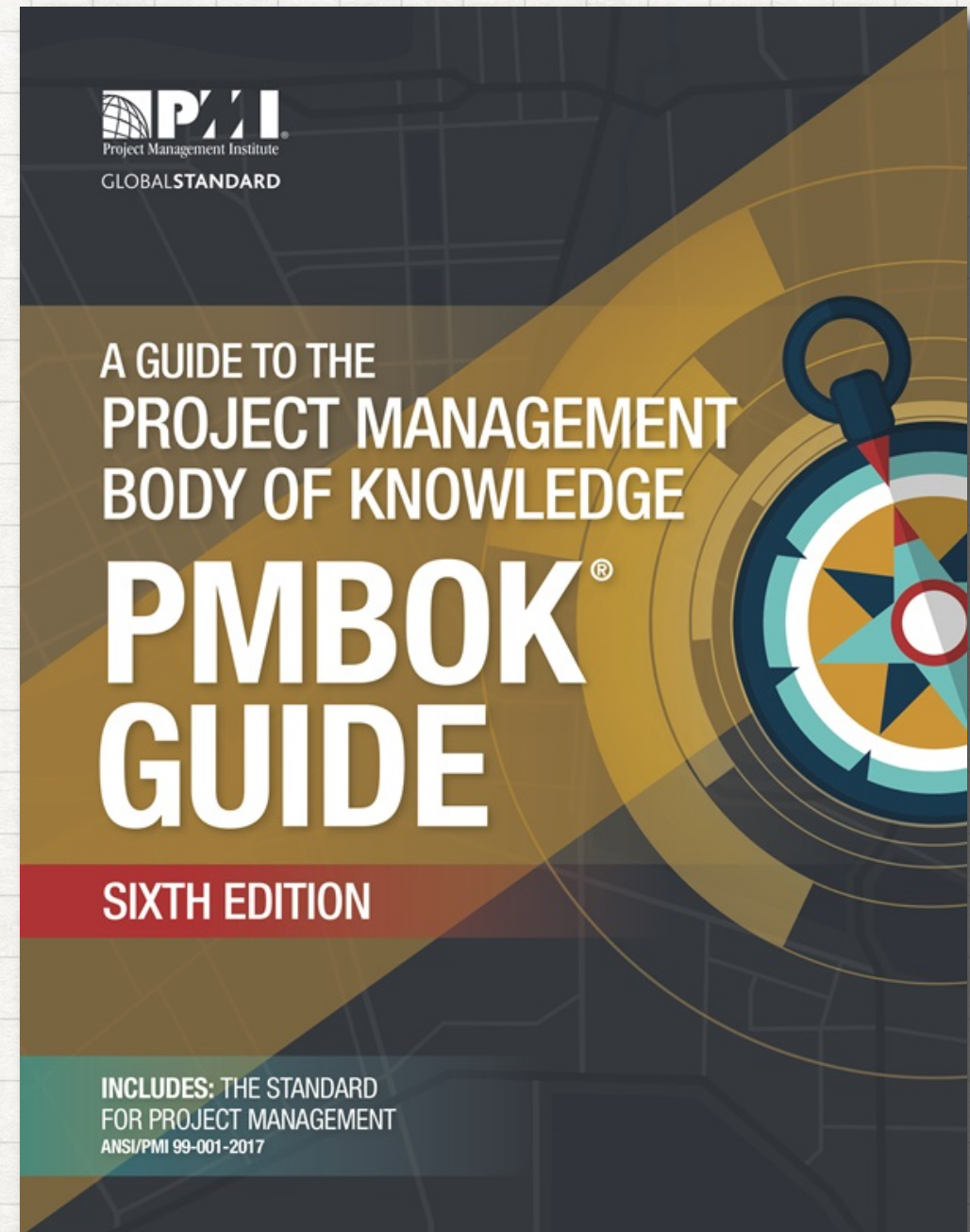
May 3, 2019

MEMBER THE TEXAS STATE UNIVERSITY SYSTEM

DEFINITION

PROJECT

- “A project is a temporary endeavor undertaken to create a unique product, service, or result.”
- All quotes in this presentation are from the PMBOK Guide, 6th ed.



DEFINITION

PROJECT MANAGER

- “The person assigned... to lead the team that is responsible for achieving the project objectives”
- The Project Manager cannot work alone - they can only succeed by working well with the project team and communicating well with the sponsor.
- The job of the project manager is to LEAD a team and to COMMUNICATE with sponsors/stakeholders

PROJECT MANAGEMENT PROCESS GROUPS

- INITIATING
 - Defining the project, and gaining authorization
- PLANNING
 - Establish full scope, refine objectives, define actions to take
- EXECUTING
 - Processes to complete the work defined in planning
- MONITORING & CONTROLLING
 - Processes to track, review, and regulate progress
 - Identify and Initiate necessary changes to stay on track with requirements
- CLOSING
 - Formal closure of a project, phase, or contract

DEFINITION SPONSOR

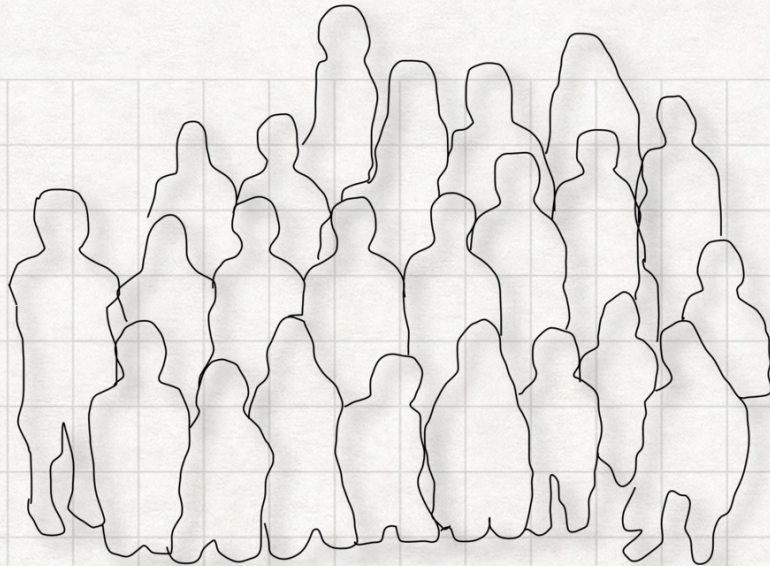
"Person or group who provides resources and support for the project... and is accountable for enabling success"



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DEFINITION

STAKEHOLDERS



Types of Stakeholders:

- Key Stakeholders
- Project Team
- Other Stakeholders

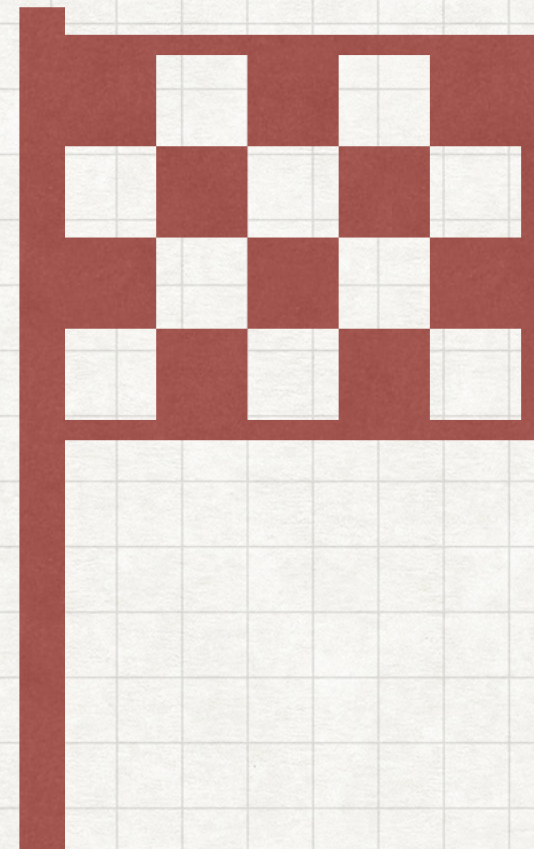
“An individual, group, or organization that

- may affect,
- be affected by, or
- perceive itself to be affected by a decision, activity, or outcome of a project...”

DEFINITION

BUSINESS CASE

- “...used to create the project charter... and ... to determine whether the expected outcomes of the project justify the required investment.”
- Parts:
 - Identify business need
 - Map outcomes that fulfill the need
 - Identify target outputs to show you met the outcomes



DEFINITION

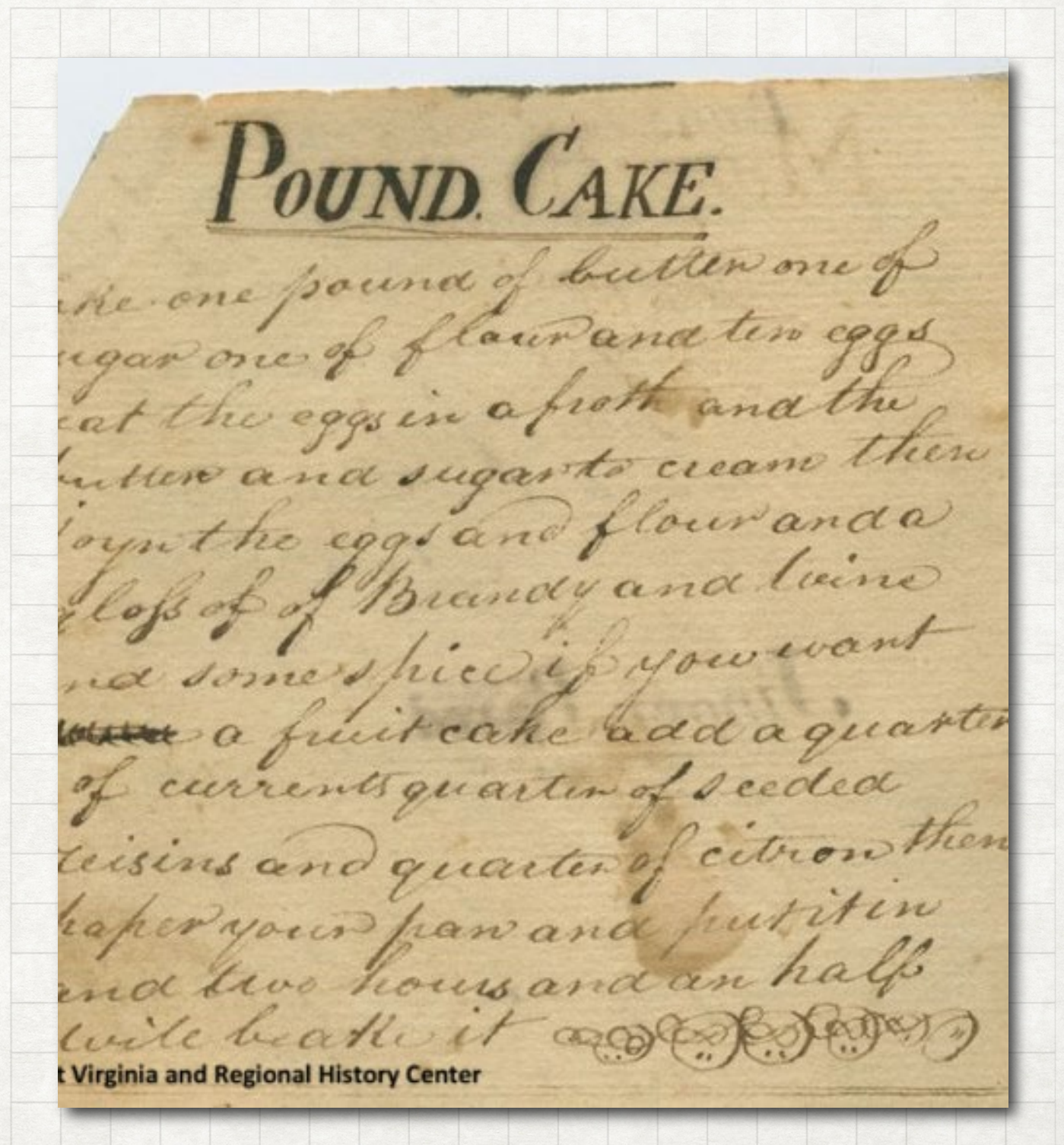
OUTCOMES

- Not a PMBOK term, but it is common and required for policy (which we'll get to soon)
- OutCOME - why? (keep asking why until you finally get back to core business objectives like mission, vision, strategic plan)
- Output (or targets or goals) - how will you measure whether you meet your outcomes?

DEFINITION

DELIVERABLE

- “...any unique and verifiable product, result, or capability to perform a service that is required to be produced to complete a process, phase, or project.”
- A THING you DELIVER to SHOW you're ON TRACK



Recipe from Miss Catharine Baker's Receipt Book

DEFINITION

REQUIREMENT

- “Condition or capability that is necessary to be present in a produce, service, or result to satisfy a business need”

DEFINITION

SCOPE

- The boundaries of your project: What it does
 - And what it does NOT do
- Be sure to address what is out of scope, especially any assumptions that may exist for your stakeholders or requirements that exist that you cannot address

DEFINITION

PROJECT CHARTER

- “A document issued by the project initiator or sponsor that formally authorizes the existence of a project and provides the project manager with the authority to apply organizational resources to project activities.”

TEXAS STATE
Project Charter

Project Name:		Project ID:	
Requestor/Key Stakeholder:		Charter Date:	
Stakeholder Department:		Associated Project(s):	
Executive Sponsor(s):		Project Tier:	
Mandate:	<input type="checkbox"/> No <input type="checkbox"/> Yes	If yes, date required:	<i>Click here to enter a date.</i>

1. Project Goal/Description:
What is the purpose and/or the business case for this project? What business benefits will be achieved?

2. Scope Definition and Project Outcomes/Deliverables & Measures of Success:
*What work will be included as part of this project? What work will not be included as a part of this project?
How will the project be defined as completed? What are the high-level deliverables?
What metrics should be measured six months after completion to determine success of project?*

3. Project Team/Key Stakeholders/Roles:
*Who are the key people and key areas that need to be involved in this project?
If the project requires resources from other departments/teams, a representative from each should be listed.
Include key stakeholders, account manager(s), executive sponsor(s), project manager(s), developers.*

Name	Role on Project Team	Department	NetID/Contact Info

4. Organizational Groups Impacted:
*Who are the key people and/or areas that will be impacted by the work on this project, or by the work and the results of this project?
List the user groups for this project (i.e. students).*

DEVELOPING THE PROJECT CHARTER

INPUTS, TOOLS & TECHNIQUES TO USE

INPUTS

- Business case
- Agreements
- Enterprise Environmental Factors (Culture/Norms)
 - Ex: Risk aversion?
- Organizational Process Assets (Policies, templates, similar projects)
 - Ex: Policy: IT PPS 4.10
 - Ex: Project Charter Template

TOOLS & TECHNIQUES

- Expert Judgment
- Data Gathering
 - Brainstorm
 - Focus Groups
 - Interviews
- Interpersonal and team skills
 - Conflict Management
 - Facilitation
 - Meeting management
- Meetings

FIELD TRIP

- Go to [IT PPS 4.10](#)
- Locate [IT Templates for Project Management](#)
 - Search [TXState.edu](#) for ITAC Project Management Templates

VIEW SAMPLE CHARTER

TEXAS STATE Project Charter

Project Name:	Sister's wedding cake	Project ID:	#1!
Requestor/Key Stakeholder:	Sister	Charter Date:	5/1/19
Stakeholder Department:	Family	Associated Project(s):	Sister's wedding!
Executive Sponsor(s):	Mom (\$\$)	Project Tier:	Tier 3 (see policy)
Mandate:	<input type="checkbox"/> No <input type="checkbox"/> Yes	If yes, date required:	Click here to enter a date.

1. Project Goal/Description:

What is the purpose and/or the business need for this project? What business benefits will be achieved?

Description: Baking a wedding cake for sister's wedding.
Business Need: Fulfill a girlhood dream

2. Scope Definition and Project Outcomes/Deliverables & Measures of Success:

What work will be included as part of this project? What work will **not** be included as a part of this project?

How will the project be defined as completed? What are the high level deliverables?

What metrics should be measured six months after completion to determine success of project?

In Scope: Baking a test cake, adjusting, Baking final cake, delivering final cake

Out of scope: Serving cake, purchasing serving utensils, purchasing and delivery plates/forks/napkins, etc.

Outcome: Fulfill Girlhood Dream

Deliverables: Test cake, Taste test, and Final Cake and Delivery

Completion requirement: 3 tiers, serves 100 people, Must have figurines

Measures of success: Taste test with achievable adjustments to recipe, Meets requirements

6 months later: Look back on fond cake memories – yummy!

3. Project Team/Key Stakeholders/Roles:

Who are the key people and key areas that need to be involved in this project?

If the project requires resources from other departments/teams, a representative from each should be listed.

Include key stakeholders, account manager(s), executive sponsor(s), project manager(s), developers etc.

Name	Role on Project Team	Department	NetID/Contact Info
Sister	Sponsor		
Mom	Money-lady		
Dianna	Project Manager and Baker		
Andrew	Delivery guy		
Church lady	Helps with delivery and setup		

4. Organizational Groups Impacted:

Who are the key people and/or areas that will be impacted by the work on this project, or by the work and the results of this project?

List the user groups for this project (i.e. students).

Wedding attendees
Church workers

5. Software/Databases Impacted:

What existing applications or databases will be impacted by the work on this project, or by the results of this project?

What integration points will be necessary with existing systems for this project to be successful?

N/A

TEXAS STATE Project Charter

6. Ownership

If this project involves the implementation of a software product, what department will be responsible for the administrative management (such as adding users, removing users, configuration changes)?

What department will be responsible for the technical support of this product (maintenance, upgrades, code changes etc.)?

Dianna will own the cake and be responsible for support/adjustment of the cake after delivery (ex: If decorations are messed up during delivery). Once wedding begins, cake is in final state.

7. Security /Risk Assessment:

What security risks are associated with implementation of this project?

Who will be responsible for addressing these risks and how?

NA

8. Scheduling Requirements (Anticipated Timeline/Milestones):

Is there an externally—or internally—driven completion date (or other limitation) for this project? If so, please indicate and explain.

Are there specific milestones that must be met on certain dates?

Wedding date: 5/27!!!

Taste Test: No Later than 5/16

Must have basic recipe no later than 2/26, so that allergy information can be included on invitation

9. Funding Requirements:

Will funding be required for the purchase of services or products (software/hardware) for the project?

If so, describe what will need to be funded, the anticipated costs/budget estimates and funding sources.

All account managers of the funding sources should be included as stakeholders on this charter.

This section provides a summary of estimated costs associated with the objectives of this project. This is intended to present probable funding requirements.

Estimated budget: \$100

Authorization/Charter Approval:

Type the name of each Project Team Member and their title and route for electronic signatures.

Sister Sponsor

Mom Money-lady

Dianna Project Manager and Baker

Andrew Delivery guy

Church lady Helps with delivery and setup

Attachments (could include requirements, major deliverables, Project Management Plan, gantt chart, executive milestones, communication plan, etc.):

Include the name of the document and a description

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DEFINITION

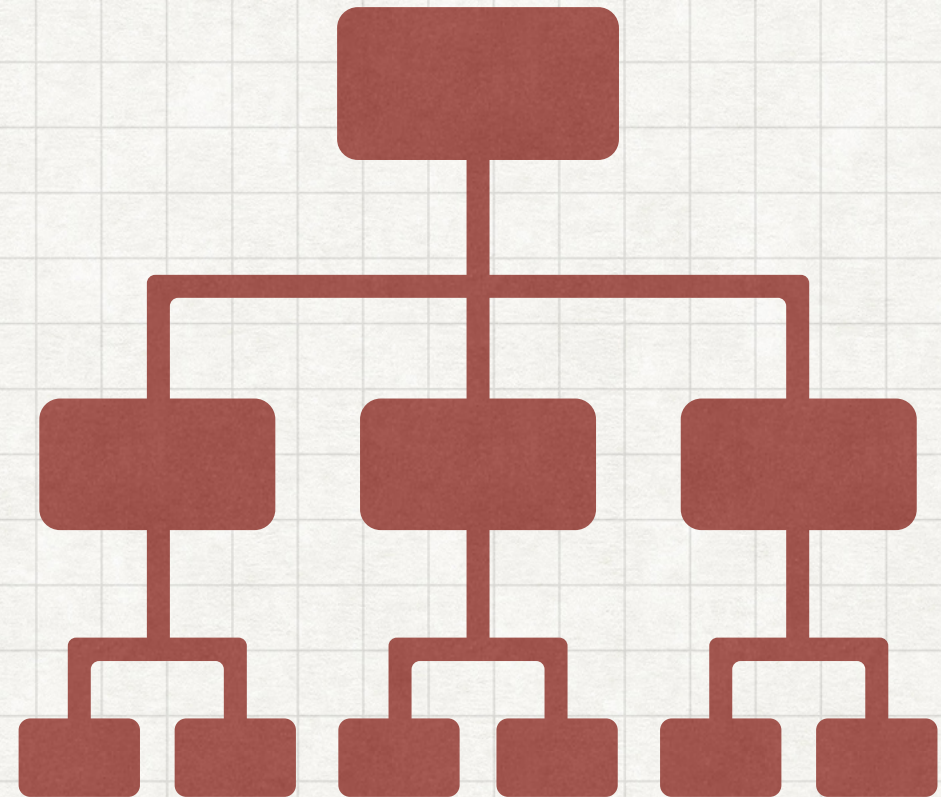
RISKS AND CONTINGENCIES

- Knowable and Unknowable Risks
- Contingencies/Responses to risk:
 - Escalate
 - Avoid
 - Transfer
 - Mitigate
 - Accept

SCHEDULE DEFINITION

WBS: WORK BREAKDOWN STRUCTURE

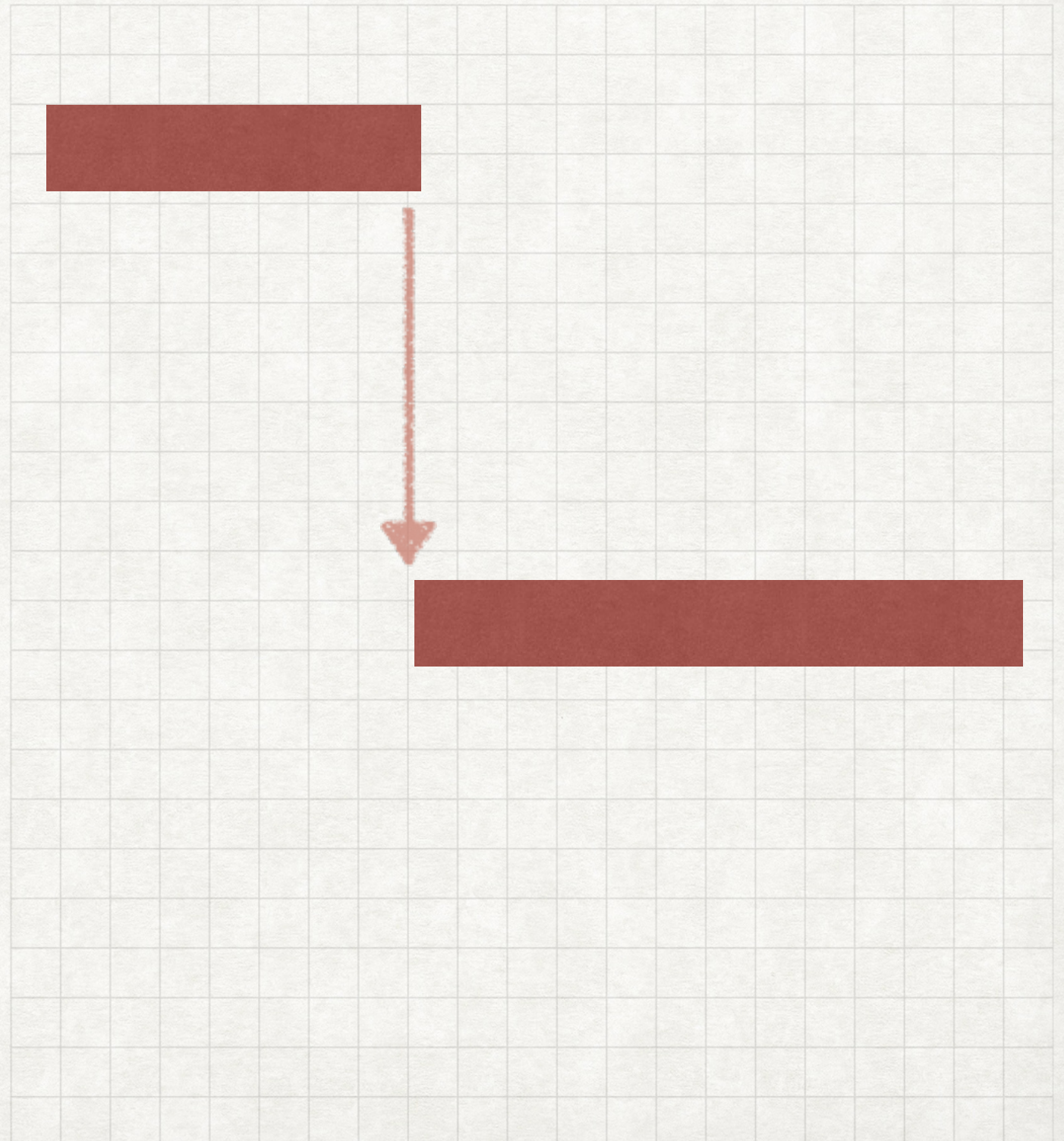
- “A hierarchical decomposition of the total scope of work to be carried out by the project team to accomplish the project objectives and create the required deliverables”
- Start with aspects of scope or deliverables, break them down into “work packages - the work defined at the lowest level of the WBS for which cost and duration are estimated and managed”.



SCHEDULE DEFINITION

DEPENDENCIES

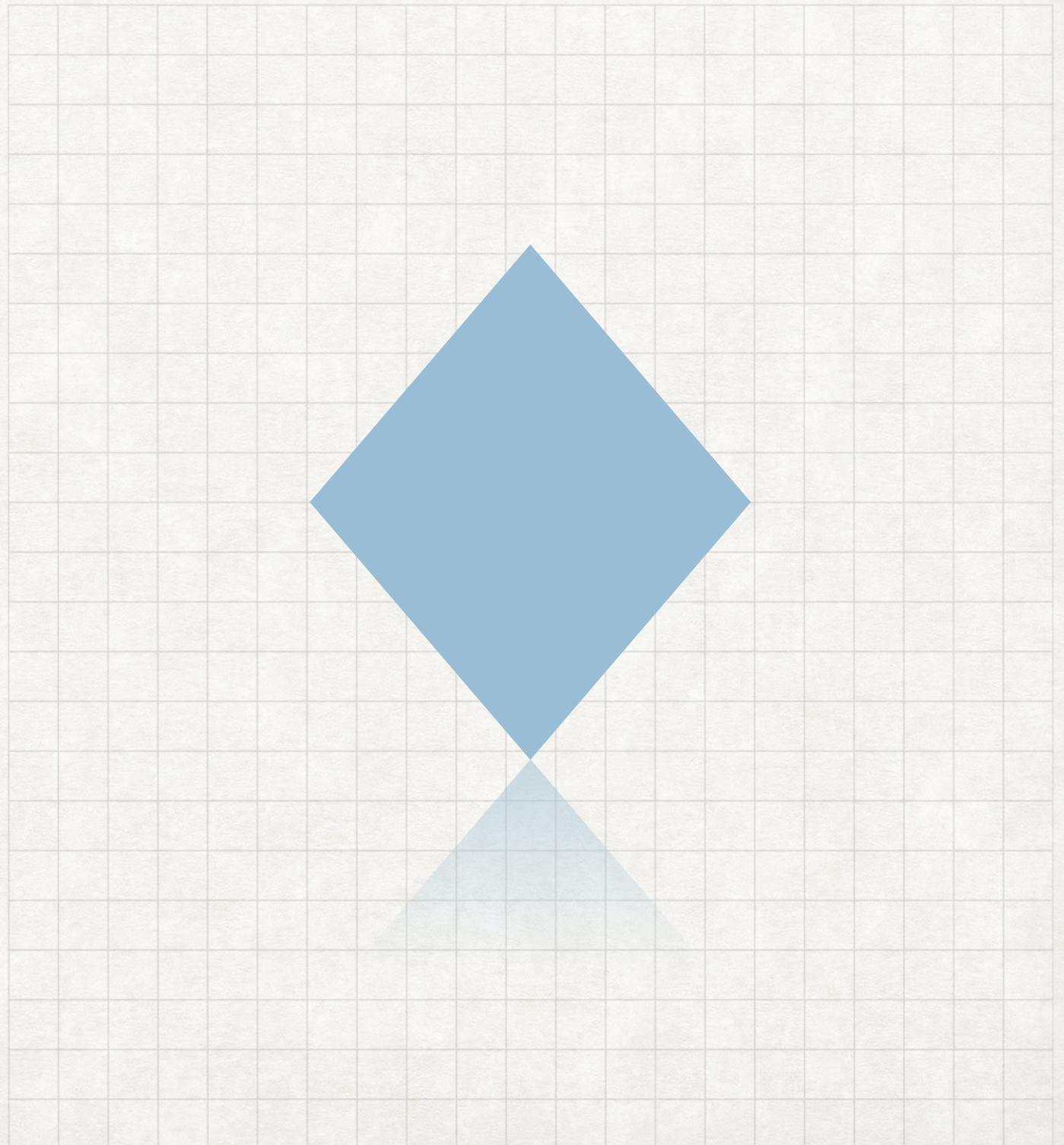
- A logical relationship between two tasks when one task must happen before/after/alongside another
- You must bake the cake before your sister can taste it
- Related terms: Predecessor
 - Network Diagram
 - Network Path
 - Critical Path



SCHEDULE DEFINITION

MILESTONE

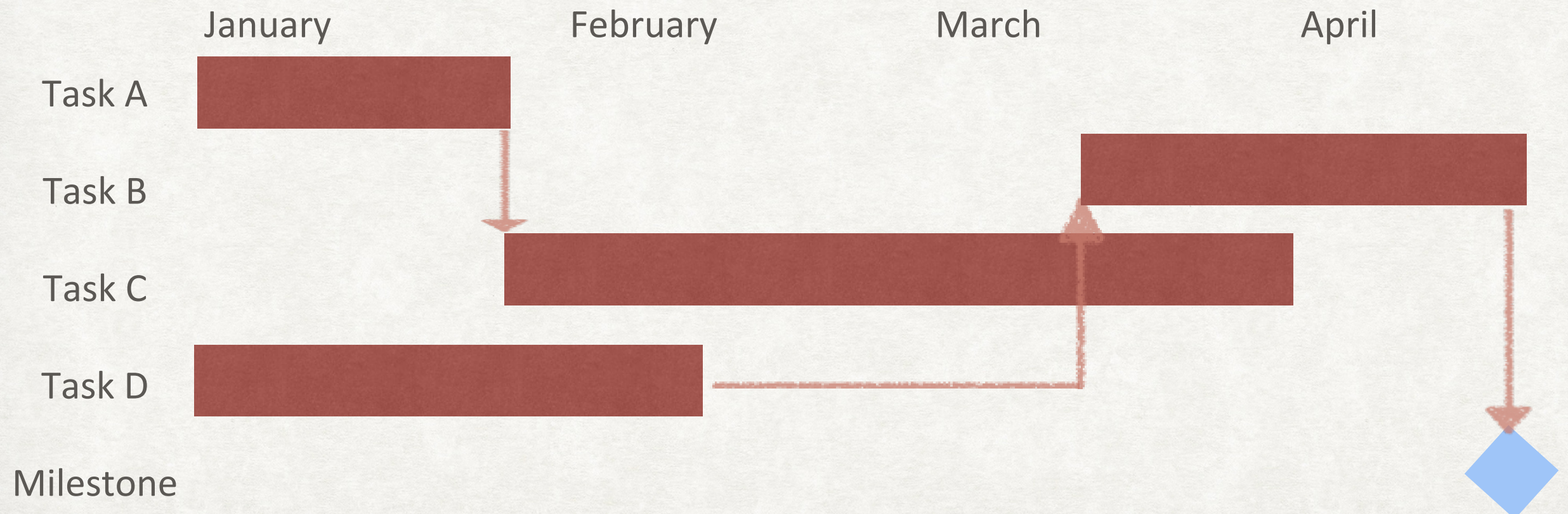
- “A significant point or event in a project...”
- Map these into your schedule!
 - A diamond is traditional marker for a milestone on a visual calendar
- A TIME/EVENT to CHECK IN with team and stakeholders to SHOW/CELEBRATE you’re ON TRACK



SCHEDULE DEFINITION

GANTT CHART

- “A bar chart of schedule information where activities are listed on the vertical axis, dates are shown on the horizontal axis, and activity durations are shown as horizontal bars placed according to start and finish dates”
- Basically a visualization of the schedule and a reporting mechanism.



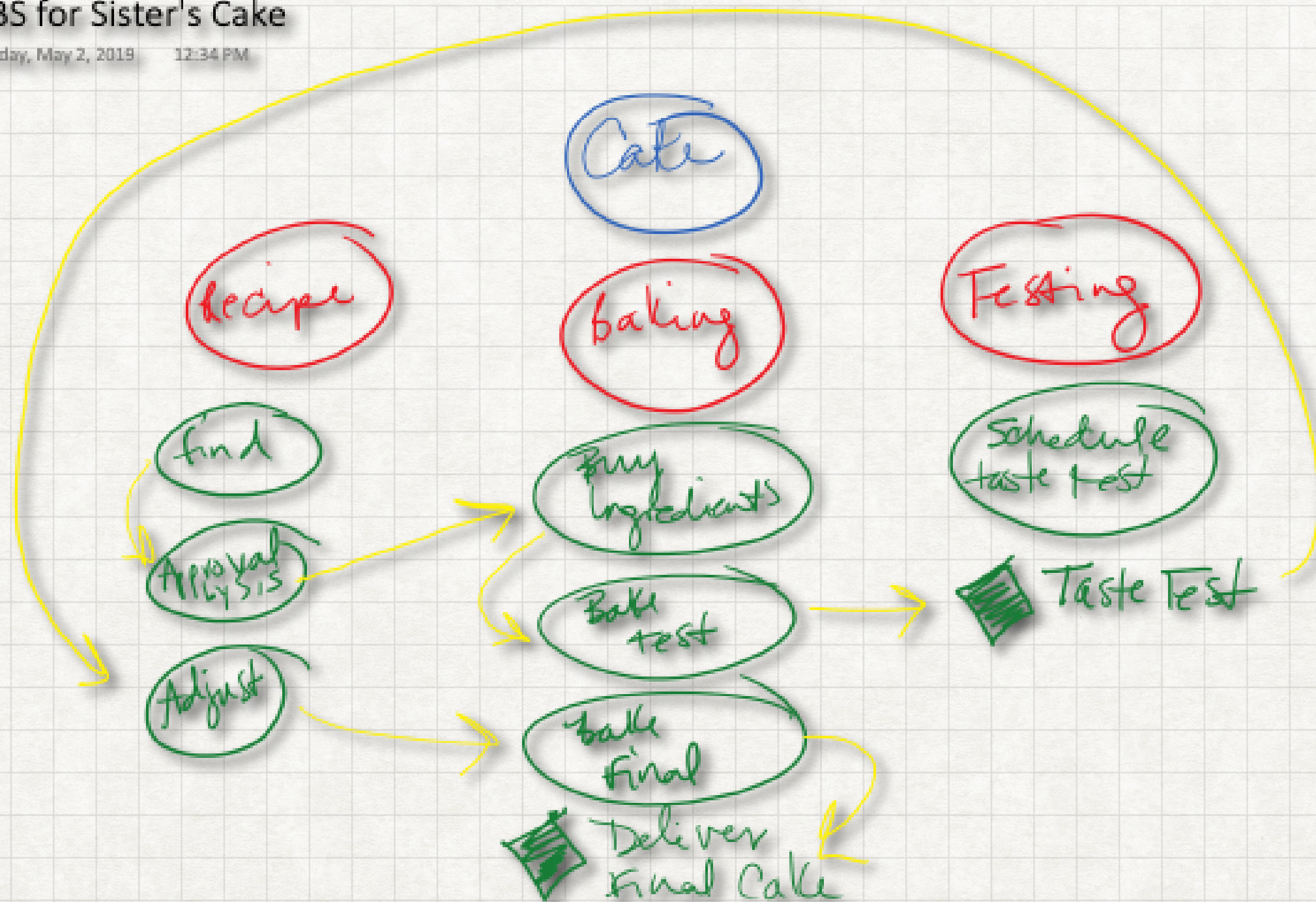
ACTIVITY
CREATE
WBS FOR
CAKE



WBS SAMPLE

WBS for Sister's Cake

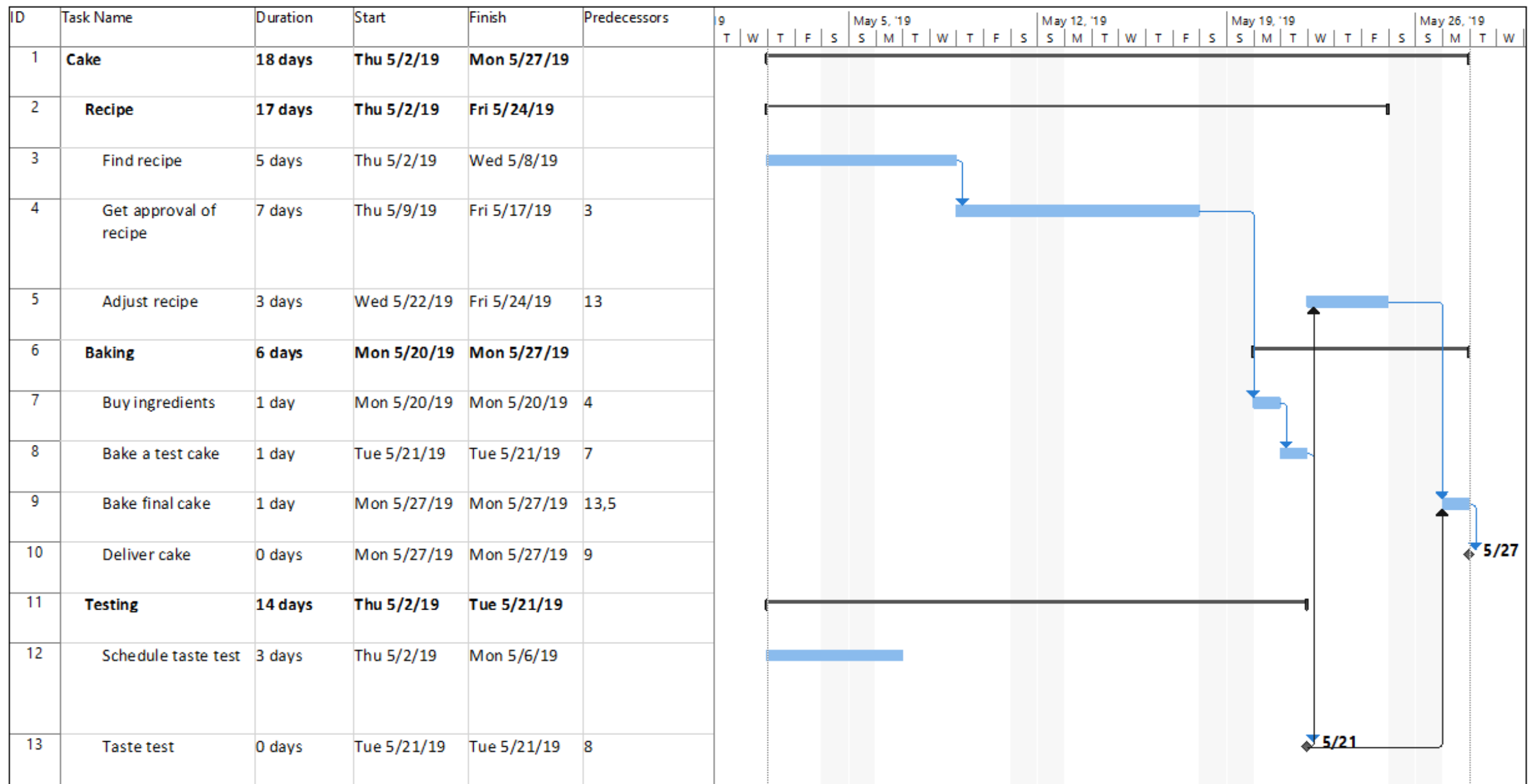
Thursday, May 2, 2019 12:34 PM



WBS INTO PROJECT

	Task Name ▼	Duration ▼	Start ▼	Finish ▼	Predecessors
1	▲ Cake	18 days	Thu 5/2/19	Mon 5/27/19	
2	▲ Recipe	17 days	Thu 5/2/19	Fri 5/24/19	
3	Find recipe	5 days	Thu 5/2/19	Wed 5/8/19	
4	Get approval of recipe	7 days	Thu 5/9/19	Fri 5/17/19	3
5	Adjust recipe	3 days	Wed 5/22/19	Fri 5/24/19	13
6	▲ Baking	6 days	Mon 5/20/19	Mon 5/27/19	
7	Buy ingredients	1 day	Mon 5/20/19	Mon 5/20/19	4
8	Bake a test cake	1 day	Tue 5/21/19	Tue 5/21/19	7
9	Bake final cake	1 day	Mon 5/27/19	Mon 5/27/19	13,5
10	Deliver cake	0 days	Mon 5/27/19	Mon 5/27/19	9
11	▲ Testing	14 days	Thu 5/2/19	Tue 5/21/19	
12	Schedule taste test	3 days	Thu 5/2/19	Mon 5/6/19	
13	Taste test	0 days	Tue 5/21/19	Tue 5/21/19	8

GANTT VIEW



PROJECT COMMUNICATION PLAN

Stakeholder/Audience	Owner of communication	Method of communication	Frequency or date	Content of Communication
Sister	Baker (Dianna)	Verbally	Weekly (at weekly dinners)	How it's going - sample cake if available
Mother of bride	Budget person (Dianna)	In writing via email	At any and all changes of budget	Current updated budget
Attendees	Sister	Insert into the invitation	No later than 6 weeks before wedding - 2 weeks notice for printing printing	Allergy content of cake (must have final recipe)

DEFINITION PROJECT BUDGET

Alkek Library - FY2020 Budget Preparation Equipment/Software/Service/Other M&O Request

Requestor Completes Items Below

Requesting Department Lead(s)	
Requesting Department(s)/Unit(s)	
Library staff Involved in request	Please list the names of others you have consulted or included in the communication process while developing this request:
Justification of Potential Use	
Justification of Potential Use	
Cost Estimate (3 lowest)	
Cost Estimate	
Vendor Information	If you have worked with a vendor on the cost estimate, please provide contact information (name, ph#, email):
Justification/Justification of Potential Impact	
Requested Timeline & Funding Sources if applicable	
Requester's Contact Information	

PROJECT ESTIMATING

4 METHODS WITH EXAMPLES

- Analogous estimating (use previous projects or components - ex: my last wedding cake cost around \$500 to make)
- Parametric estimating (use per-person or per-square foot costs to estimate - ex: a 500-person wedding cake cost \$500, so a 100-person wedding cake may cost about \$100)
- Bottom-up estimating (use cost of ingredients and preferred profit to estimate)
- 3-point estimating (mathematical formula you use with 3 estimates you get from experts: M: most likely cost, O: an optimistic cost, and P: a pessimistic cost: $\text{estimate} = (O + 4M + P) / 6$)

DEFINITION

PROJECT CLOSURE

- “Closing Project or Phase is the process of finalizing all activities for the project, phase, or contract. The key benefits of this process are the project for phase information is archived, the planned work is completed, and organization team resources are released to pursue new endeavors.”
- How? (next slide)



Outcomes of presentation.

- 16 attendees discussed recent research by an undergrad student presenter, **fulfilling goal** of promoting undergraduate research
- Student deposited their presentation into the IR, **fulfilling the goal** of teaching the IL Frame: “Scholarship as Conversation”

INPUTS, TOOLS&TECHNIQUES, AND OUTPUTS

OF PROCESS OF PROJECT CLOSURE

INPUTS:

Charter and Business Case

Requirements
Product/Event/Service
Outputs

Issues/Lessons
Learned/etc

Agreements

TOOLS AND TECHNIQUES:

Expert Judgment

Data Analysis

Meetings

OUTPUTS:

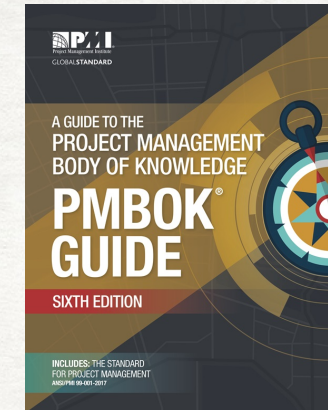
Project document
updates (Lessons
Learned)

Final
Product/service/result
transition

Final report

Updates to any Policies
or OPAs

HOW CAN I LEARN MORE??



- Check out the PMBOK, 6th edition from the library
- lynda.com has 125 courses on Project Management for self-paced learning in concepts and tools
- Career training from txstate.edu's partnership with Ed2Go:
 - Bonus: The hours in Ed2Go count toward official project management training hours*
- Learn how to become a CAPM® or PMP® through PMI
 - Project Management Institute or ProjectManagement.com

OR CONTACT YOUR FAVORITE LOCAL PMP®



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