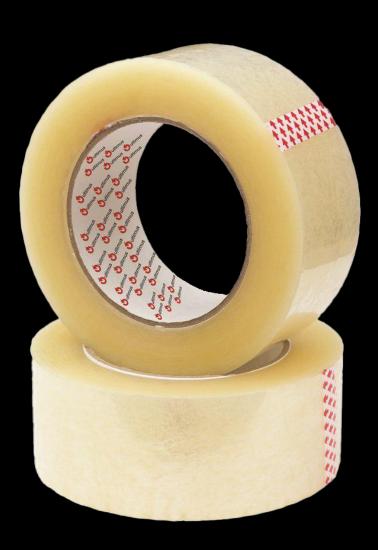


straws



scissor



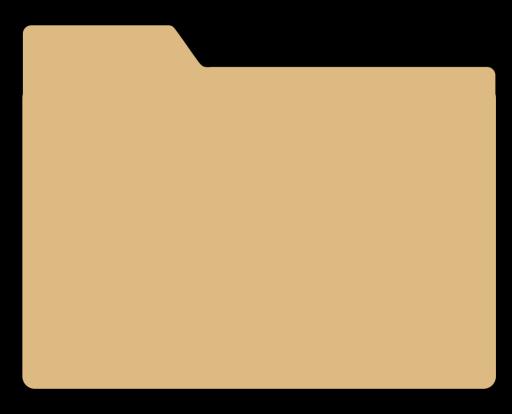
Scotch tape



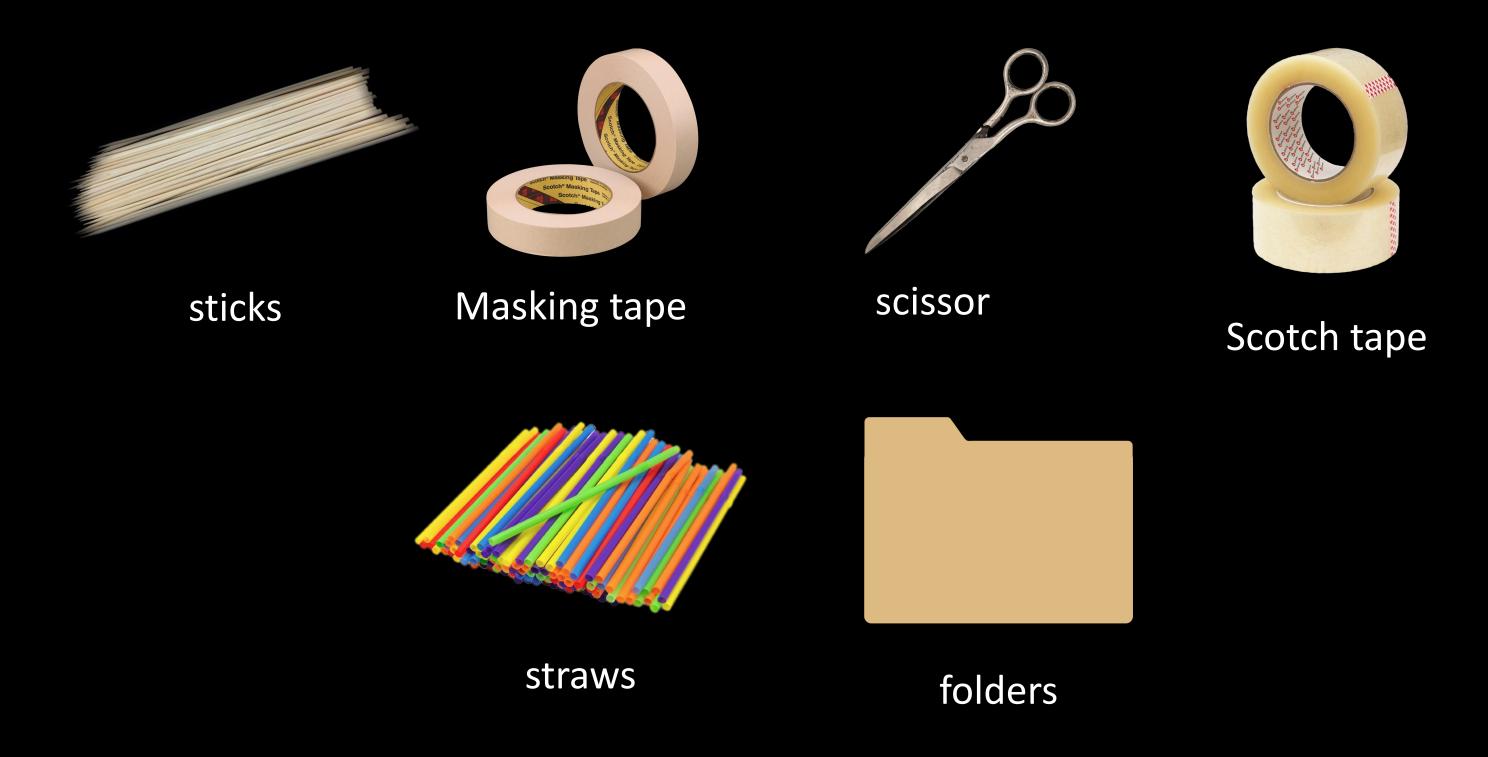
Masking tape



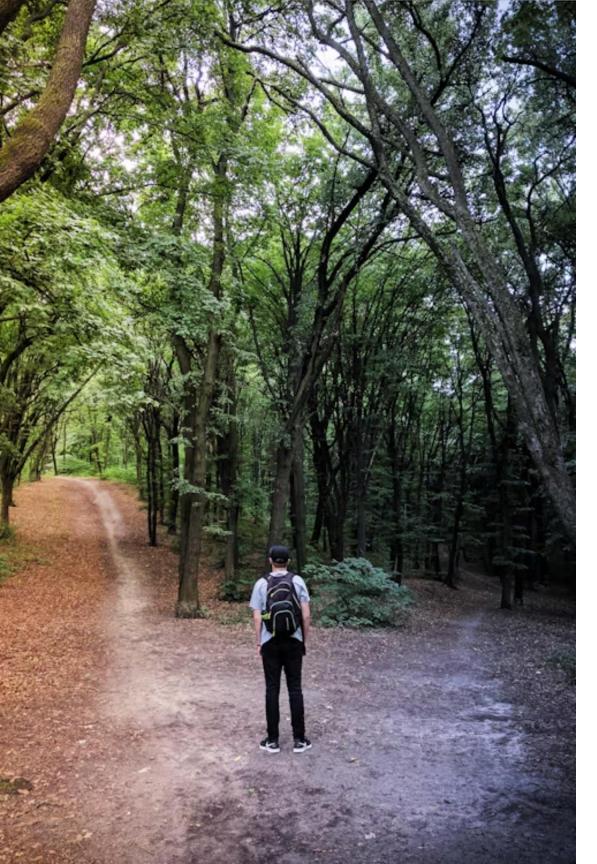
sticks



folders







Decision Making, Planning and Organizing Technical Activities

Explore the art and science of effective decision-making, from fundamental processes to advanced quantitative models and strategic planning.

By: Group 2

The Decision-Making Process

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Improves Accountability

A documented process promotes transparency in decision-making.

The 7-Step Process Steps to Effective Decision-Making

Steps to Effective Decision-Making

01

Identify the Problem

Clearly define the challenge that requires a decision.

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Collect data from internal (e.g., reports) and external (e.g., market research) sources.

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Brainstorm possible solutions or courses of action.

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04

Evaluate Alternatives

Compare pros and cons, considering costs, risks, benefits, and long-term implications.

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Collect data from internal (e.g., reports) and external (e.g., market research) sources.

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Make the Decision

Choose the option that best addresses the problem and aligns with goals.

03

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Brainstorm possible solutions or courses of action.

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Clearly define the challenge that requires a decision.	Collect data from internal (e.g., reports) and external (e.g., market research) sources.	Brainstorm possible solutions or courses of action.
04	05	06
Evaluate Alternatives	Make the Decision	Implement the Decision
Compare pros and cons, considering costs,	Choose the option that best addresses the	Put the chosen solution into action with

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04	05	06
Evaluate Alternatives	Make the Decision	Implement the Decision
Compare pros and cons, considering costs, risks, benefits, and long-term implications.	Choose the option that best addresses the problem and aligns with goals.	Put the chosen solution into action with careful planning.

Review the Decision

Assess outcomes and make adjustments if the decision did not solve the problem.

Different Ways to Decide

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Decision-making approaches are various methods individuals and groups use to make choices or solve problems.

Rational

Logical, step-by-step process with complete information.

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Ethical

Making choices based on fairness, honesty, and moral principles.

Quantitative Models

Data-Driven Decisions

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Data-Driven Decisions

Quantitative models use numbers, data, and formulas to guide decisions, reducing risks and saving costs.

Analytic Hierarchy Process (AHP)

Breaks down complex decisions into criteria and sub-criteria, using pairwise comparisons to evaluate alternatives.

Example: Choosing the best project location by scoring cost, safety, and accessibility.

PERT / CPM

(Program Evaluation and Review
Technique / Critical Path Method)
Assists in identifying the longest timeconsuming path to optimize project time
and cost.

Example: Organizing construction tasks to avoid project delays.

Linear Programming

A mathematical method to allocate limited resources efficiently to achieve optimal solutions (e.g., highest profit, lowest cost).

Example: Minimizing project cost while meeting deadlines and resource limits.

Organizational Structure

Planning at Various Management Levels

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Planning at Various Management Levels

The levels of management define the chain of command and authority within an organization.



Process Planning Technical Activities

Process

Planning Technical Activities

Planning in technical contexts involves setting objectives, identifying resources, and determining steps to achieve goals efficiently.



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Basis of Control

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7

Improves Competitive Strength

Discovers new opportunities and shapes the future.

Conclusion

Types of Plans

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Plans are classified by content, time horizon, and frequency of use.

By Content

- Strategic Planning
- Tactical Planning
- Operational Planning

By Time Horizon

- Short-range plans (less than 1 year)
- Long-range plans (more than 1 year)

By Functional Area

- Marketing Plan
- Production Plan
- Financial Plan
- Human Resource Management Plan

By Frequency of Use

- Standing Plans (repeated use)
- Single-Use Plans (one-time projects)

THAT'S ALL THANK YOU!

Made by Group 2