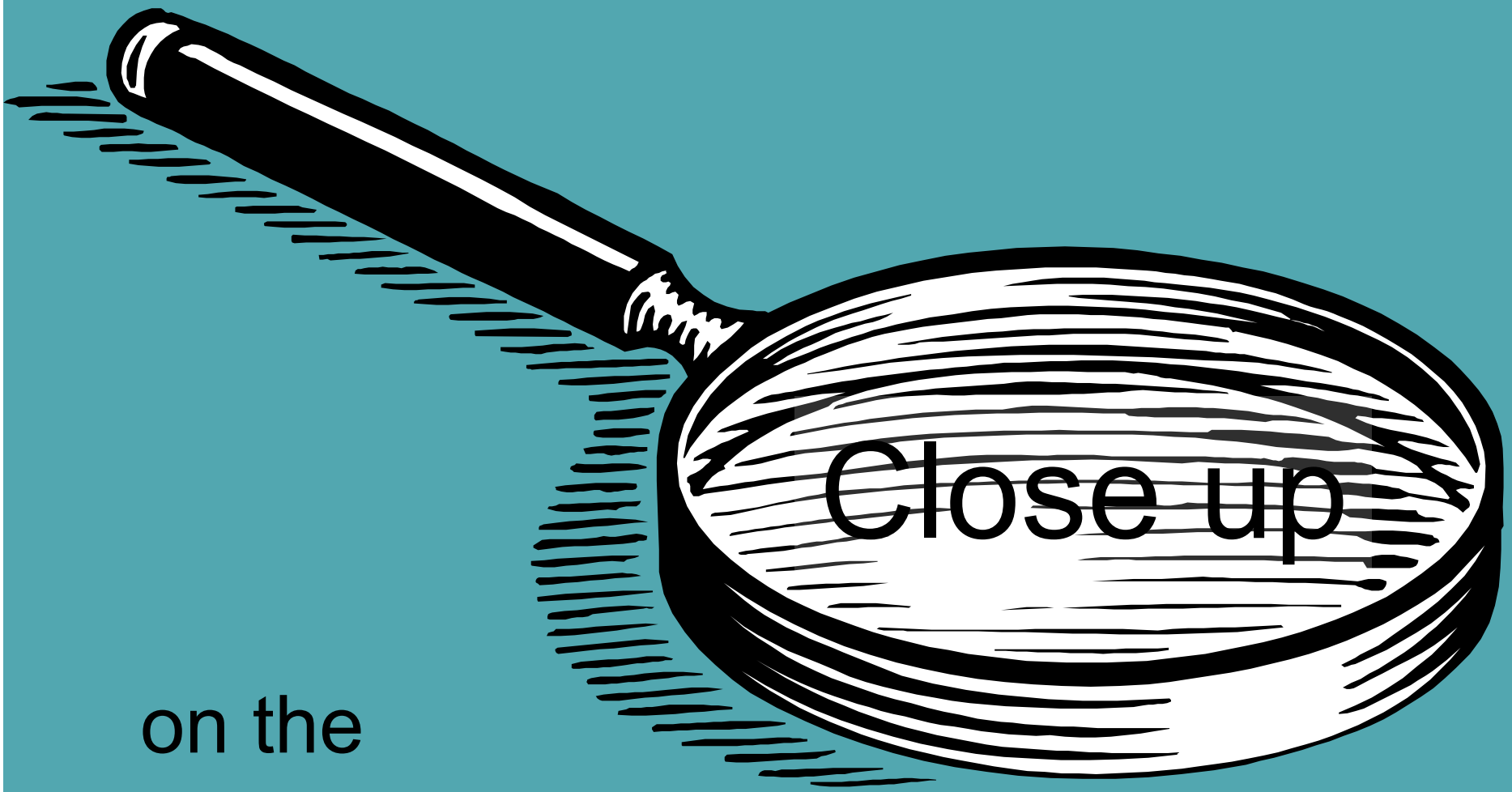

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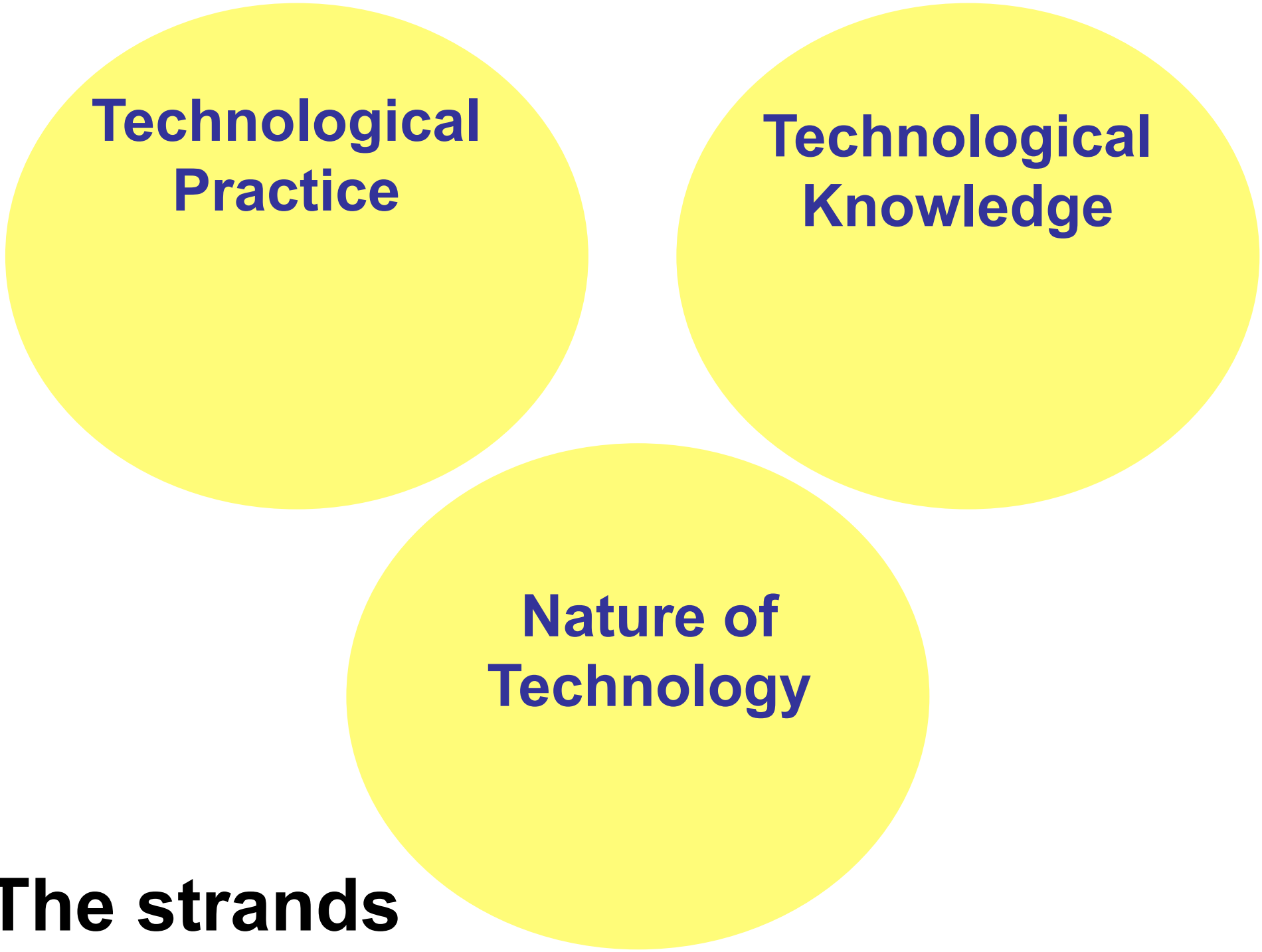
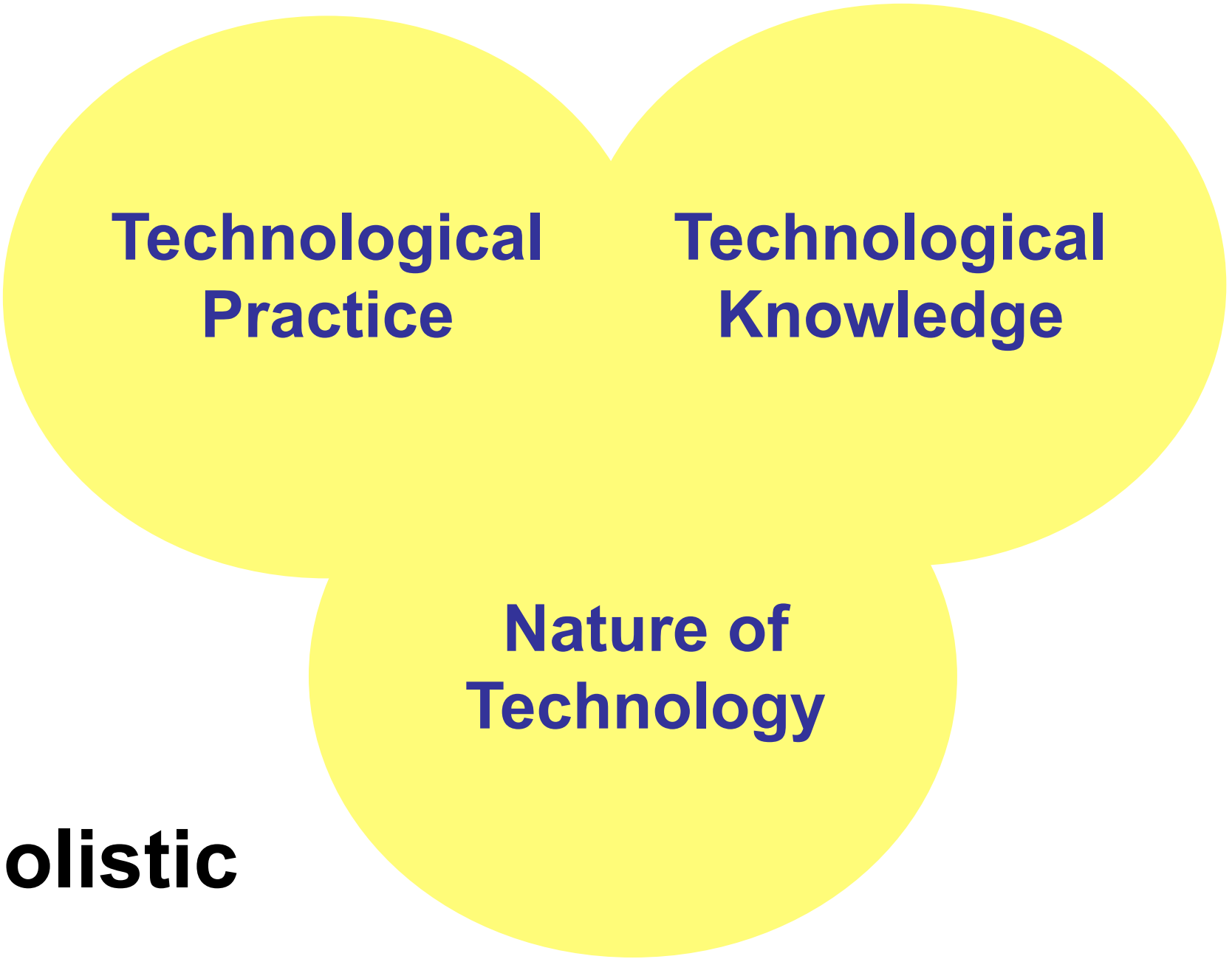
Technology Curriculum

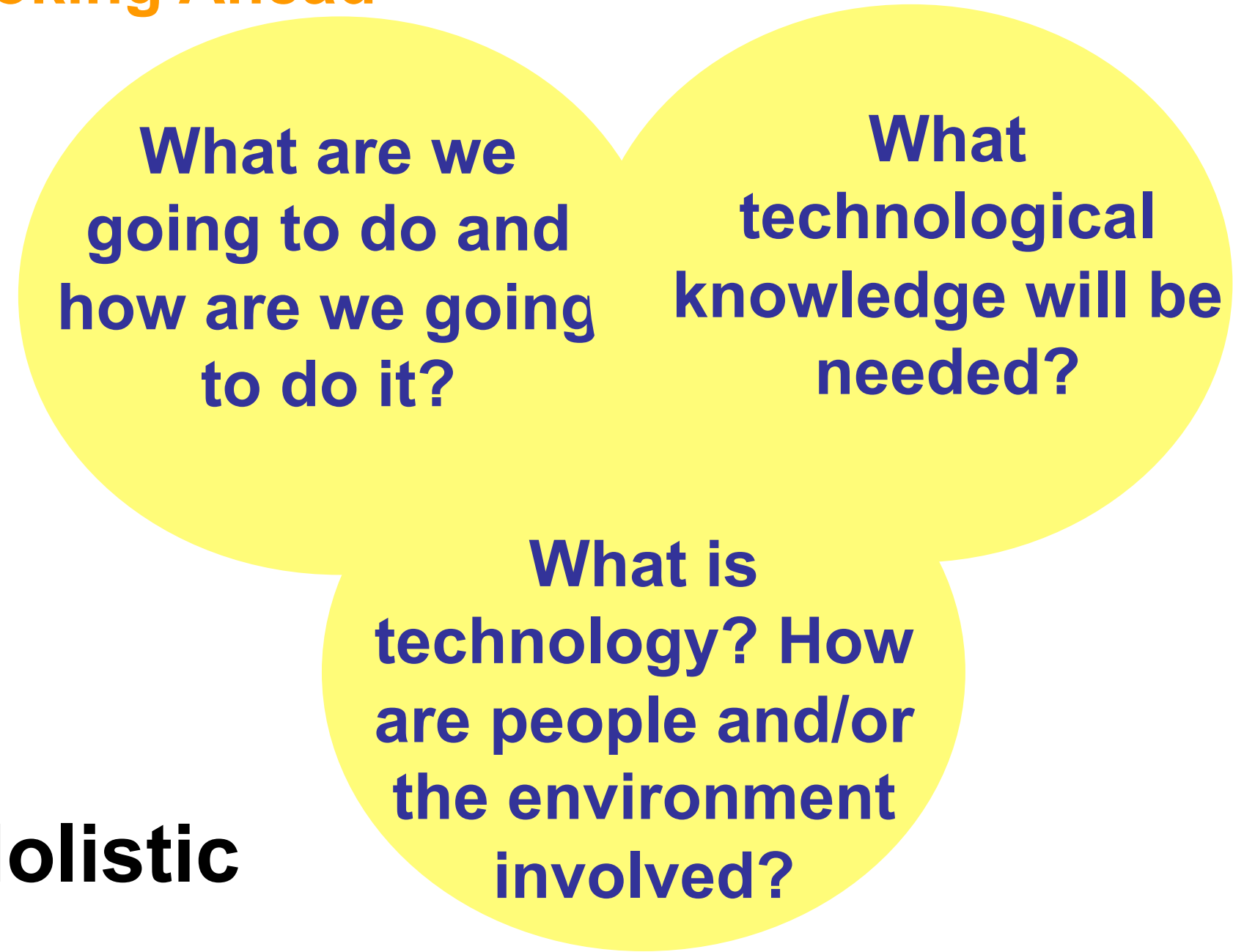

Technological Practice
Technological Knowledge
Nature of Technology

The strands


Technological Practice
Technological Knowledge
Nature of Technology

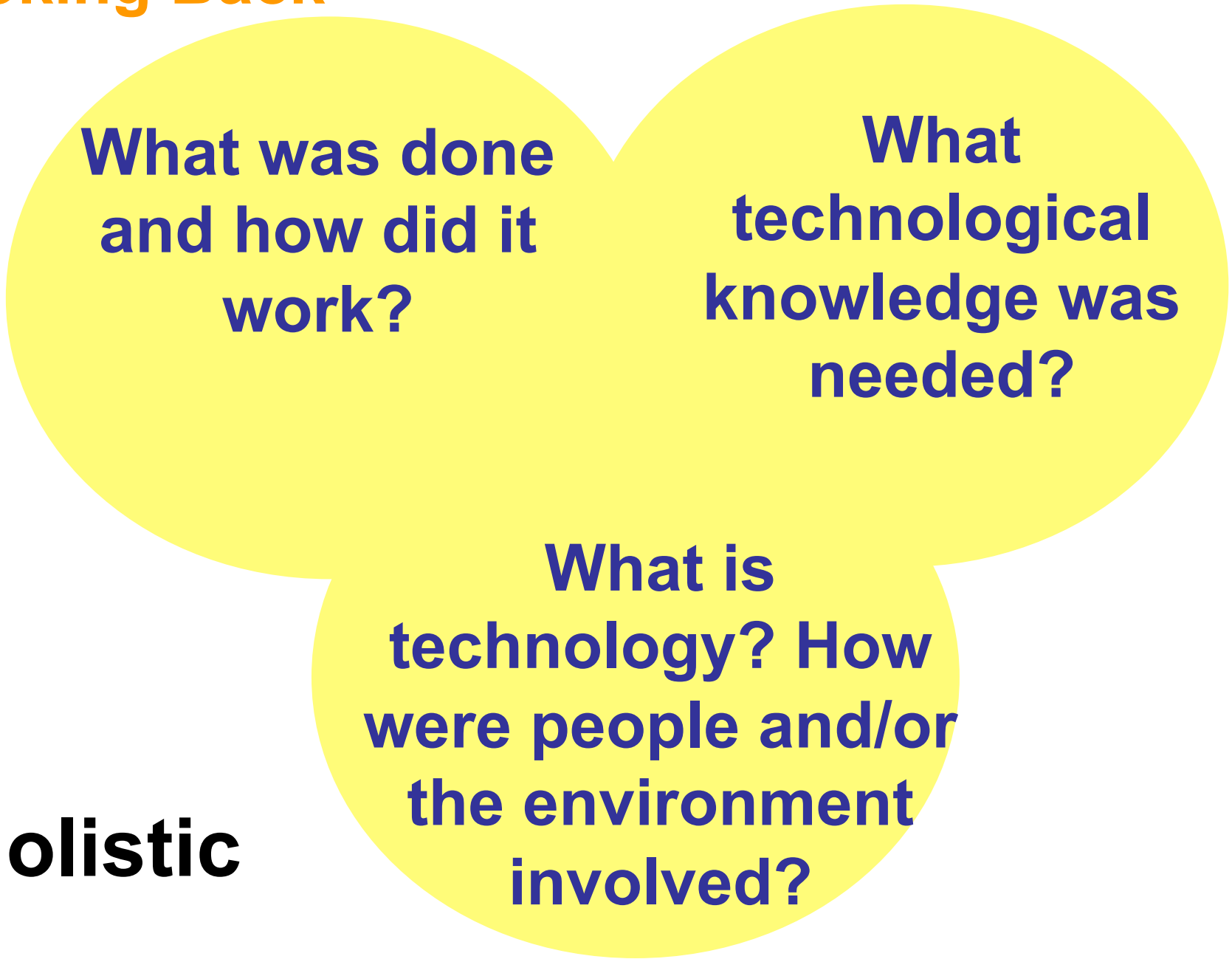
Holistic

Looking Ahead



Holistic

Looking Back



Holistic

Planning for practice

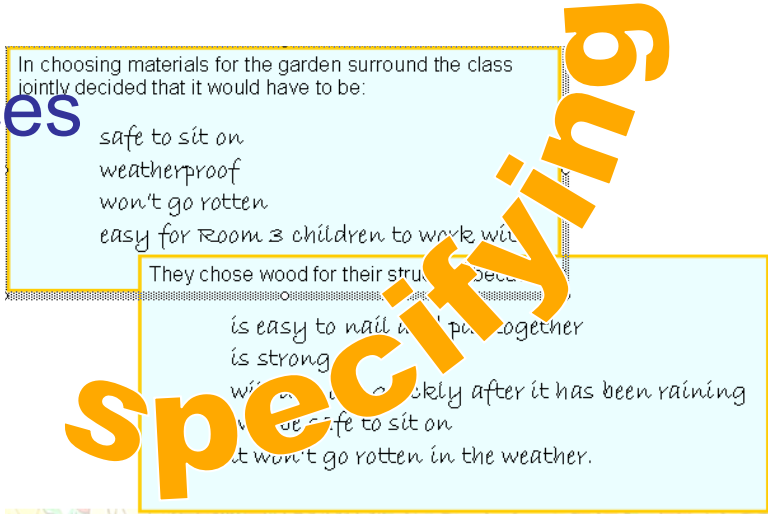
Students will :

- plan
- identify stages and steps
- identify resources
- make decisions that matter
- look back and think ahead
- consider other people's feedback

Brief development

Students will :

- consider what they are going to create, make, or do.
- think about needs and opportunities
- describe attributes or specifications
- consider available resources
- write and modify a brief



Outcome development and evaluation

Students will:

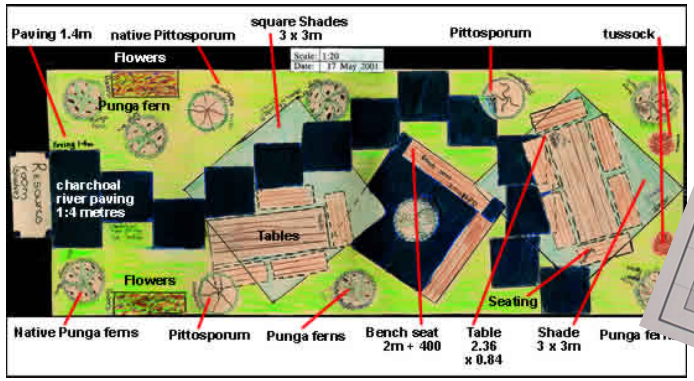
- explore/investigate a context, situation
- develop ideas for possible outcomes
- evaluate ideas against attributes (BD)
- select an outcome
- develop the outcome
- evaluate the outcome in terms of the need/opportunity

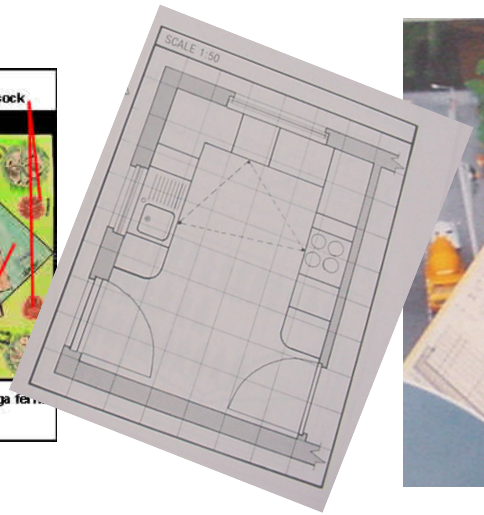
doing

Technological modeling

Students will:

- use models to represent and justify their ideas
- use models to test design concepts
- create prototypes and evaluate
- understand the functions of models





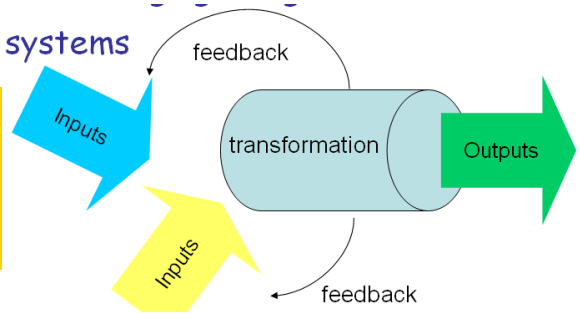
Technological products

Students will:

- examine materials
- examine products
- identify performance properties
- understand relationships between performance properties and products
- form, manipulate and transform materials

properties

Technological systems



Students will:

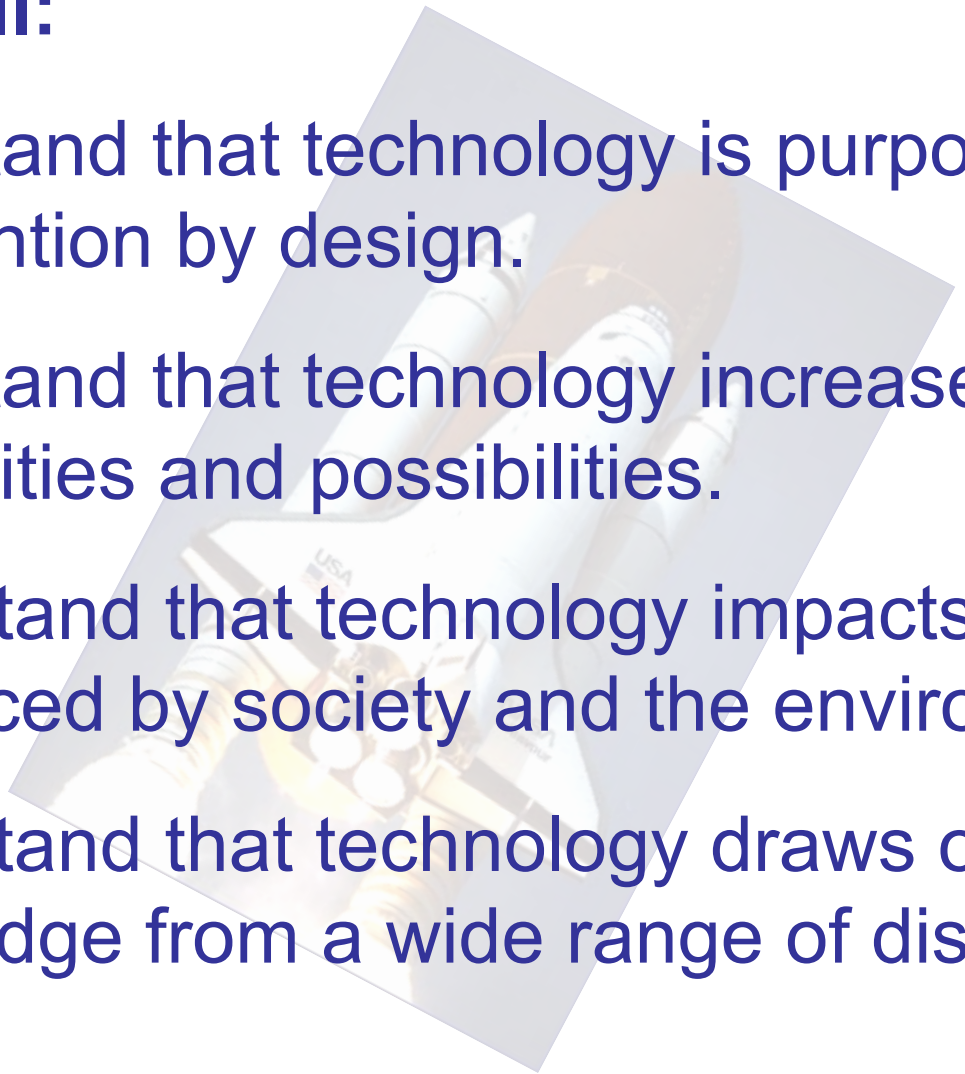
- identify inputs, outputs and transformations
- use and understand the language/symbols used to represent systems.
- Understand relationships within systems.
- Understand how transformations are controlled.
- Understand the role of the “black box”.

systems

Characteristics of technology

Students will:

- understand that technology is purposeful intervention by design.
- understand that technology increases human capabilities and possibilities.
- Understand that technology impacts on and is influenced by society and the environment
- Understand that technology draws on knowledge from a wide range of disciplines.



Characteristics

Characteristics of technological outcomes

Students will:

- understand that technological outcomes are systems and products developed by people through technological practice.
- Understand that systems and products have a related functional and a physical nature
- Understand that fitness for purpose is related to the functional and physical nature of outcomes
- Understand that alternative functions may be devised for products and systems

function and form