Assessing Critical Thinking

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Agenda

- Frayer Model
  - Background
  - How-to
  - Practice
  - Discussion
- One-Word Summary
  - Background
 - How-to
  - Practice
  - Discussion

Frayer Model

Frayer, Frederick, & Klausmeier (1969)

- Reported on assessing concept mastery

- Noted disconnect between labeling & defining concepts and understanding relations and applications of concepts

- Wanted to measure multiple levels of concept learning

Frayer, Frederick, & Klausmeier (1969)

- Identified three criteria for developing a measure:
  - Assess verbal and nonverbal aspects of concepts
  - Permit differentiation of various levels or aspects of concepts
  - Apply to various types of concepts

What is the Frayer Model?

Key Parts

Definition	Characteristics
Examples	Non-examples

Concept
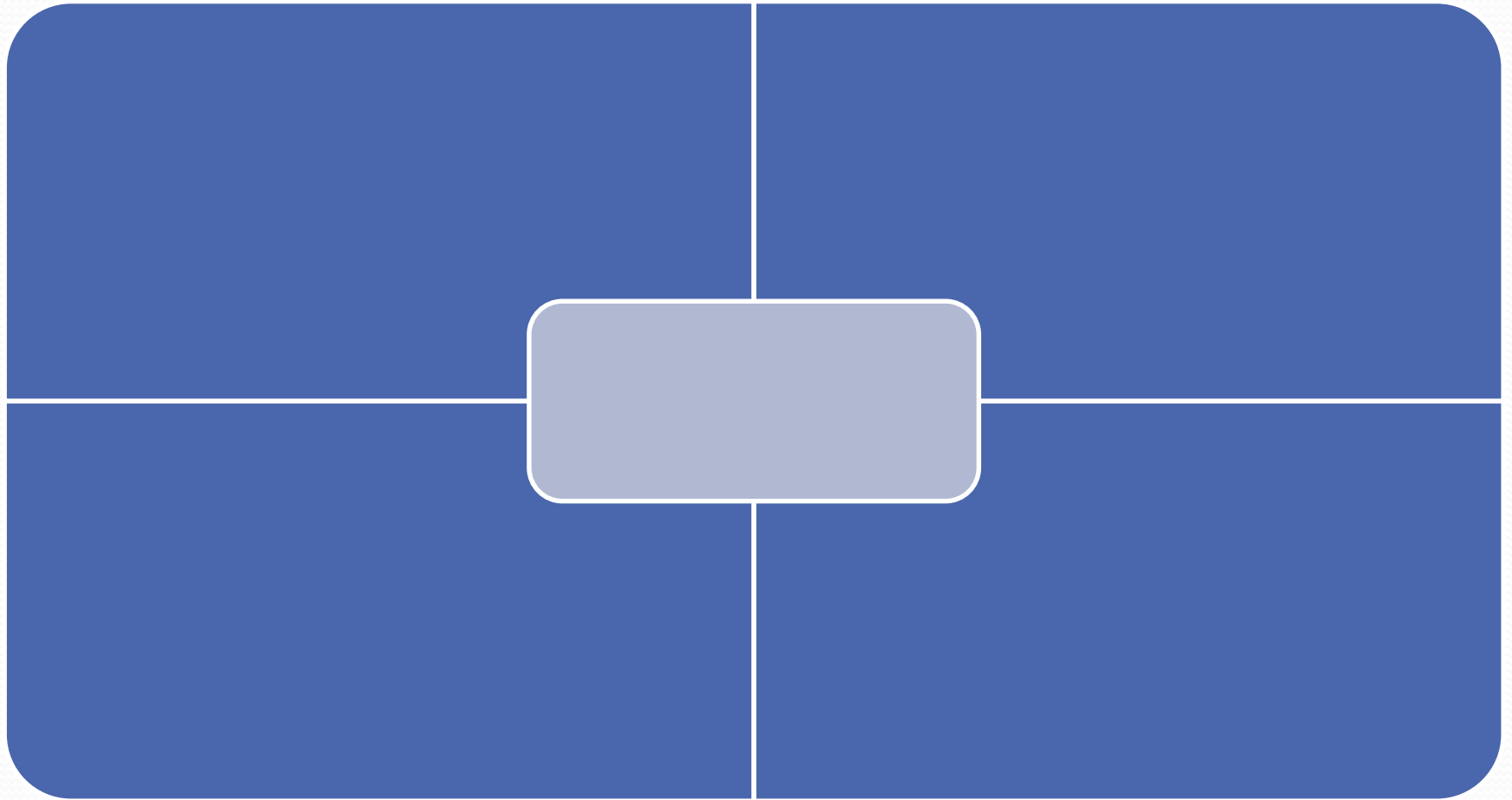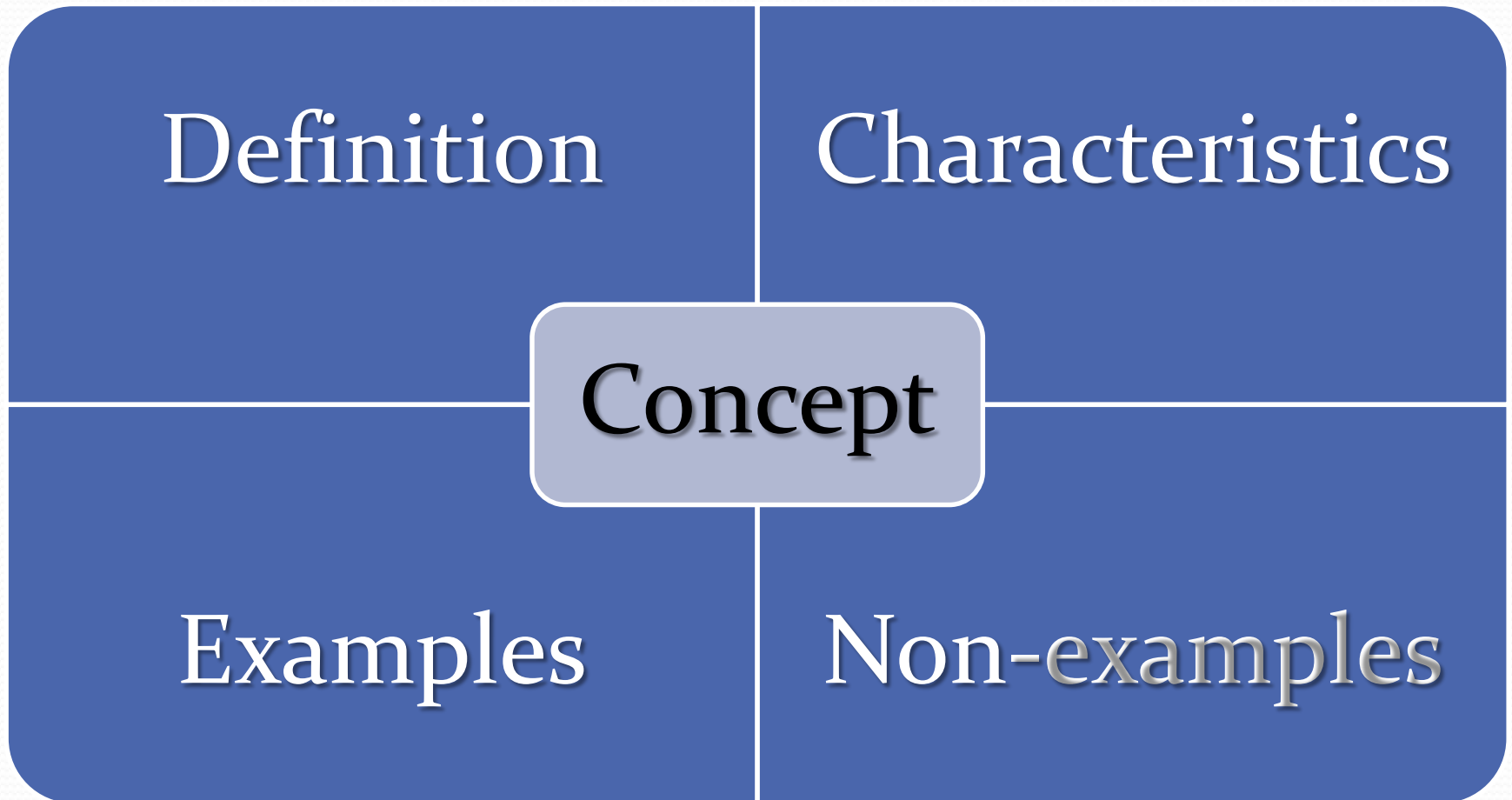
Sample

Definition:

A brown food often sweetened and used in desserts

Characteristics:

Brown

Mixes well with sugar and butter

Has health benefits

Can be eaten in solid or liquid form

Chocolate

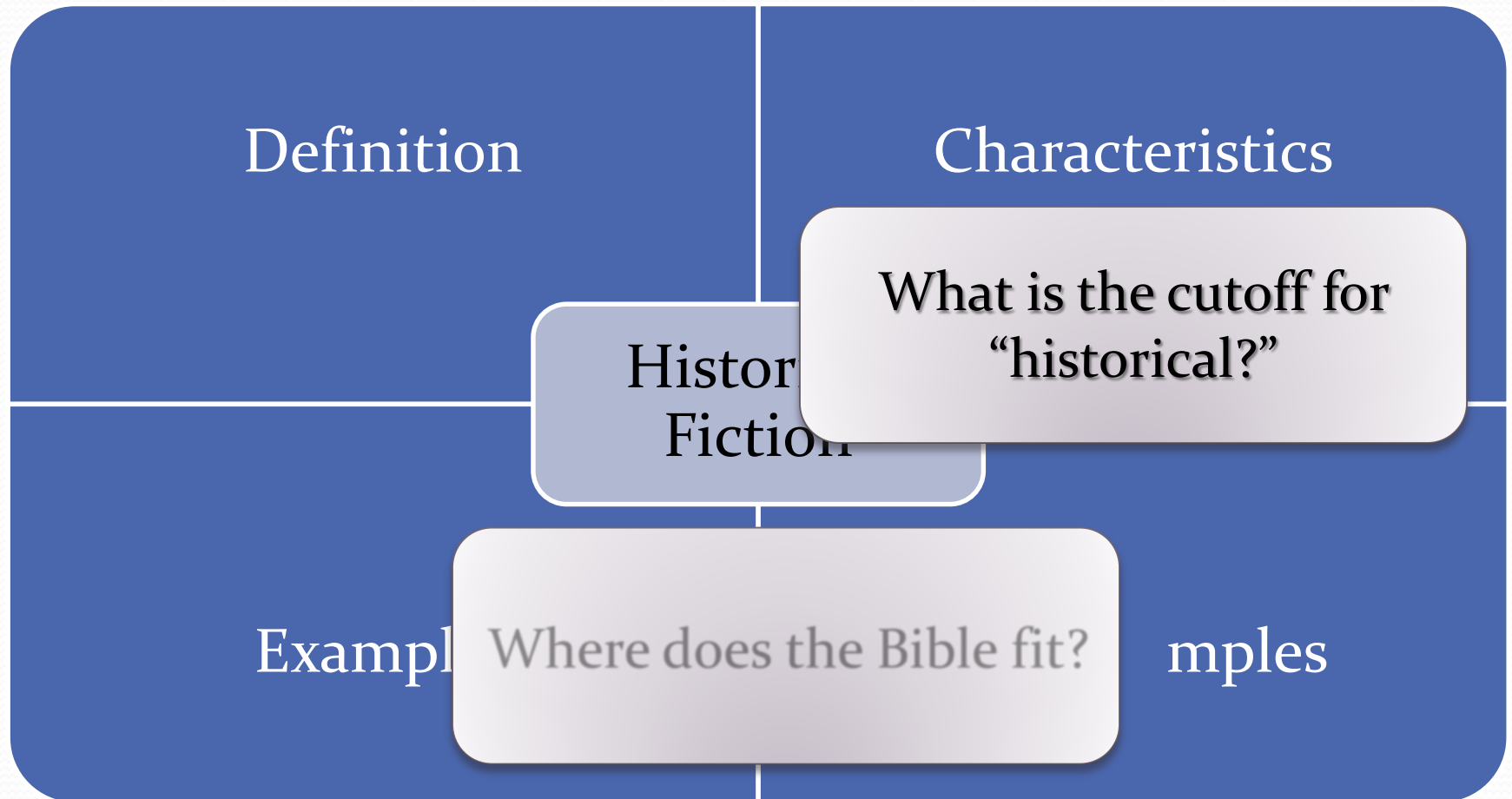**Examples**:

Chocolate chips

French silk pie

Mocha

Non-examples:

Apple

Bread

Almonds

Using Frayer for Critical Thinking

Definition

Characteristics

Histor
Fiction

What is the cutoff for "historical?"

Exampl

Where does the Bible fit?

mples

Possible practice concepts:

1. Go meta with "Frayer Model"
2. Polygons
3. Taxes
4. European Union
5. Python (the programming language)
6. Assessment
7. The digestive system
8. British literature
9. Slang
10. Ethics

Debrief

- What process did your group use to complete the Frayer Model?

- What types of discussions were you having about the concept?

Discussion

- What are the advantages and benefits of using the Frayer Model?

- How can you use the Frayer Model in one of your classes this semester?

Extension Ideas

- Provide students a completed model, but leave out the concept name. Ask students to identify the concept.

- While reading, ask students to generate a list of words that connect to the concept.
  - Divide students into groups.
  - Use the words to complete the model.

One-word Summary

One-word summary

- Two parts to this summary:

  - One word to summarize a reading or a concept

  - Rationale explaining why that is the best word
    - THIS IS THE IMPORTANT PART!

Example

Practice

- Write a one-word summary (and rationale) for the Frayer Model.

- Join a group and discuss your summary and rationale.

Debrief

- What process did you use to complete the activity?

- What types of discussions were you having about the concept?
  - How did the one-word summary support the discussion?

Extension Ideas

- Brainstorm a list of possible words as a class and discuss the value of each word as it is named.

- Have students create hashtags for a concept

Develop a Lesson