



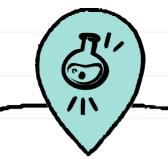
Concept Diagram



Linking Steps



Knowledge Check & Work Time



THE CHALLENGE

Introducing
difficult but
important
concepts to a
diverse group of
students



THE SOLUTION

The Concept Mastery
Routine helps
students by allowing
them to classify
characteristics,
explore examples,
and construct a good
definition.



teachers who used the routine regularly throughout the semester had greater gains in student performance on tests.





What Makes a Good Definition?

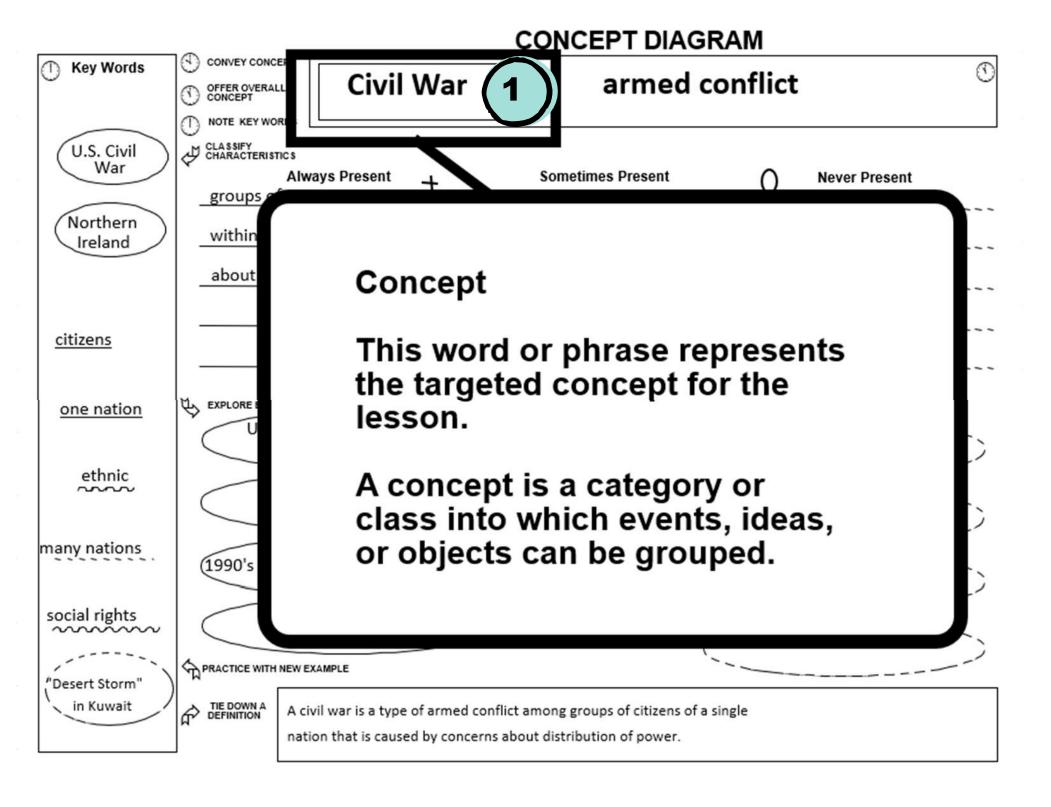
Concept Definition

A definition must include the following in a complete sentence(s):

- the name of the Targeted Concept
- the name of the Overall Concept
- all of the Always Characteristics and
- any special rule joining the Always Characteristics.

definition = 1 + 2 + Always present - special rules

- **Linear functions** are those whose graph is a straight line. A linear function has the following form. y = f(x) = a + bx. A linear function has one independent variable and one dependent variable. The independent variable is x and the dependent variable is y. slope represents a relationship of addition or subtraction.
- Mammal a warm-blooded vertebrate animal of a class that is distinguished by the possession of hair or fur, the secretion of milk by females for the nourishment of the young, and (typically) the birth of live young.
- Democracy a system of government by the whole population or all the eligible members of a state, typically through elected representatives.
- Theme an idea that recurs in or pervades a work of art or literature.



The Concept Test

- A concept is a category or group of members that share the same characteristics
 - Fraction
 - Sport
 - Mammal
 - Democracy

Can I think of 3 examples of _____?

If not, it may be an example of a concept.

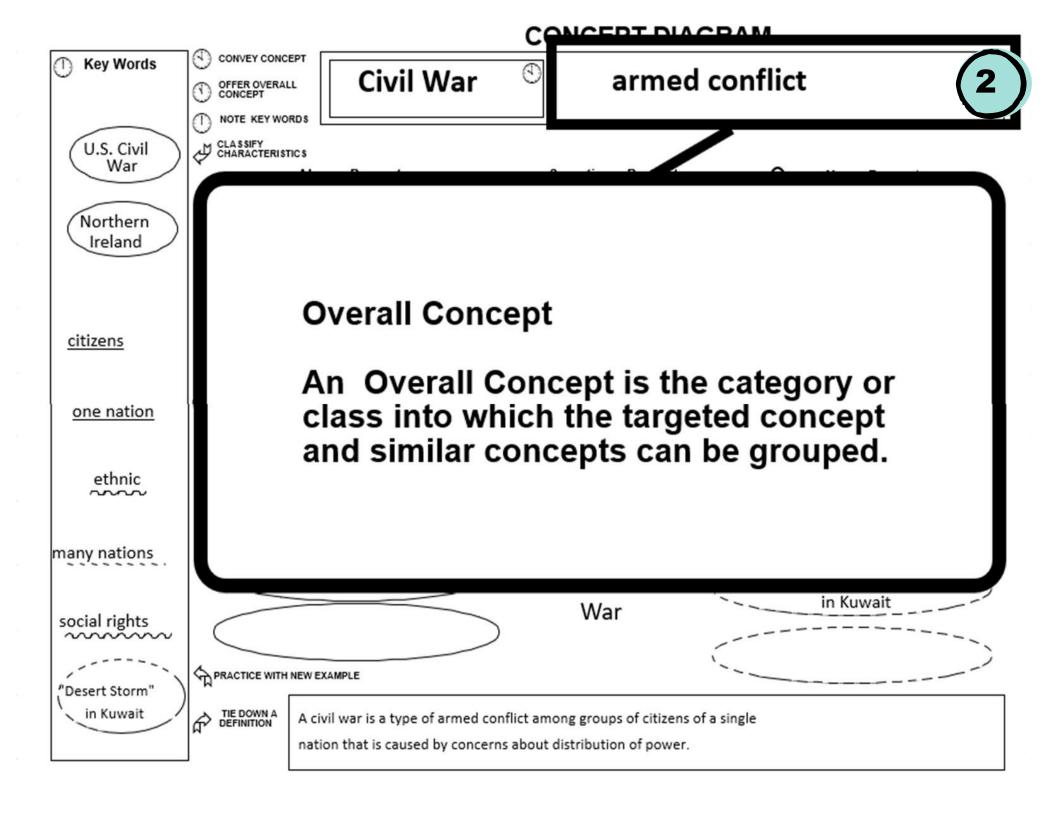
Concept or Example?

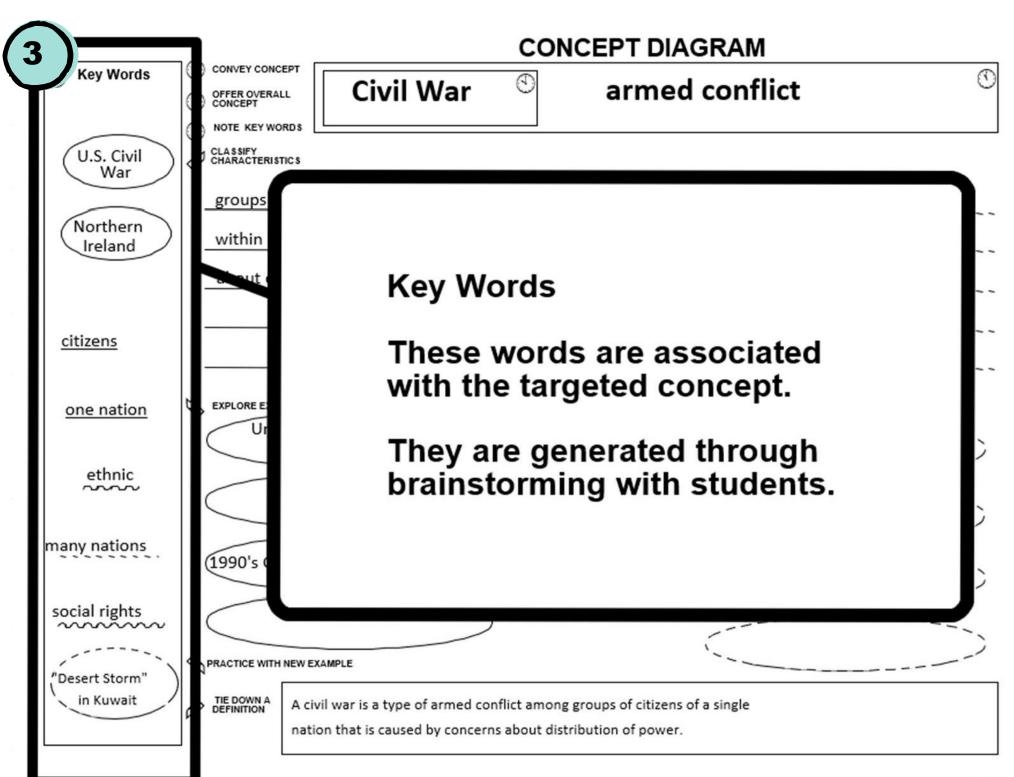
- Kindness
- Supply
- Collaboration
- Ibram X. Kendi
- France
- Energy
- Invertebrate
- Meiosis
- Species

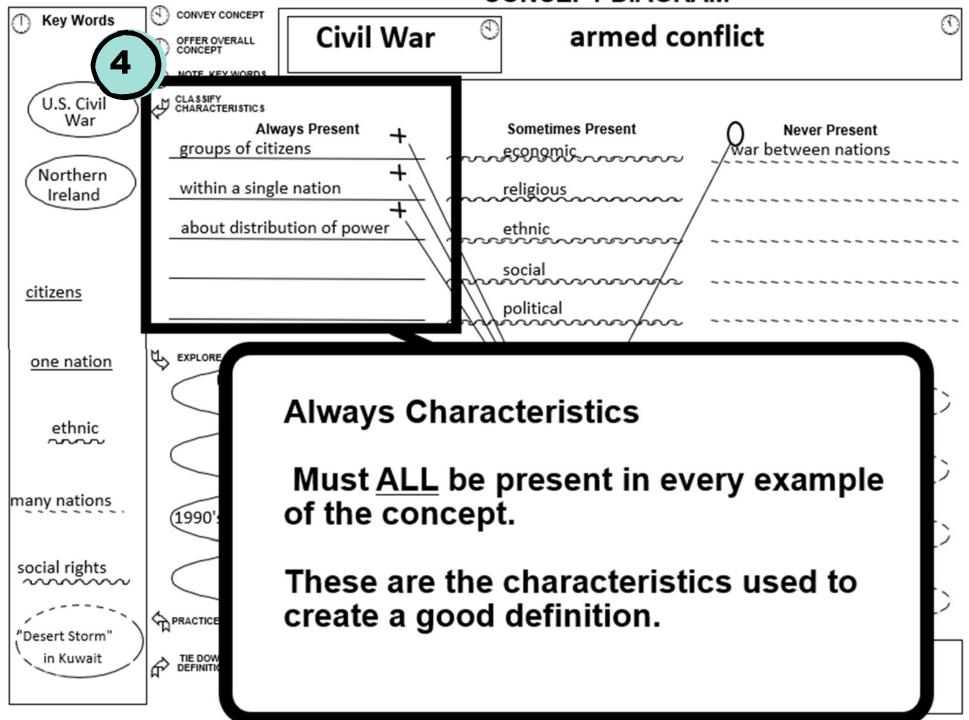
- Genre
- Somewhere over the Rainbow
- Essay
- Troportion
- Trapezoid
- Variable
- Y=2x-4
- Square

Concept Ladder

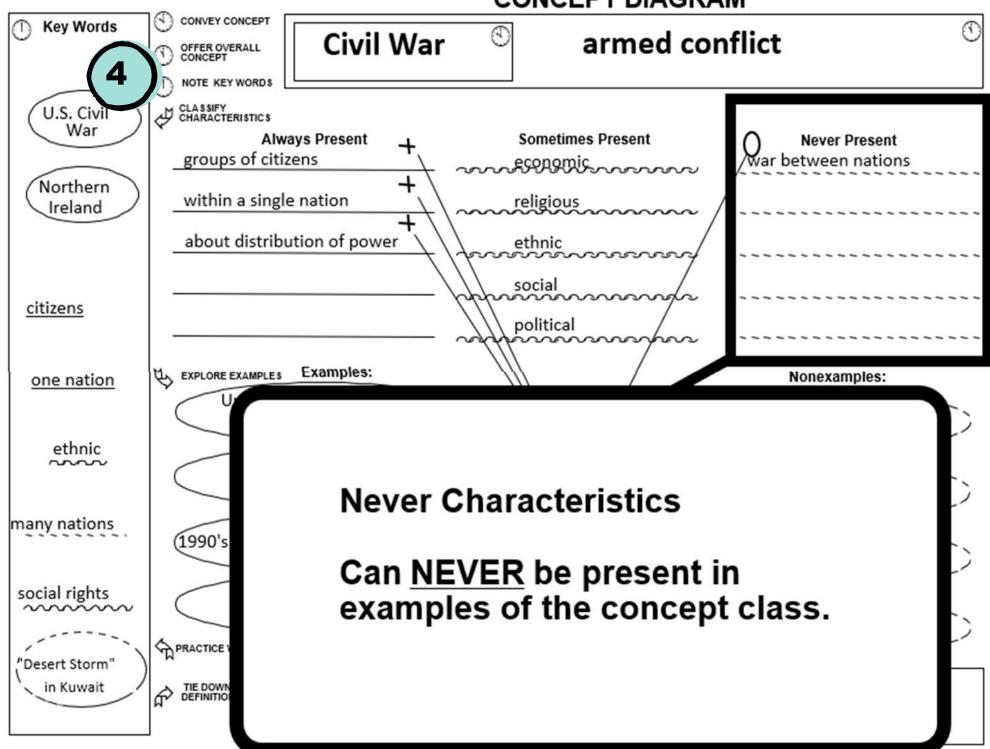
			Matter	
			Living Things	
			Animalia	
			Vertebrates	
Amphibians	Reptiles	Fish	Birds	Mammals
			Blue Jay	







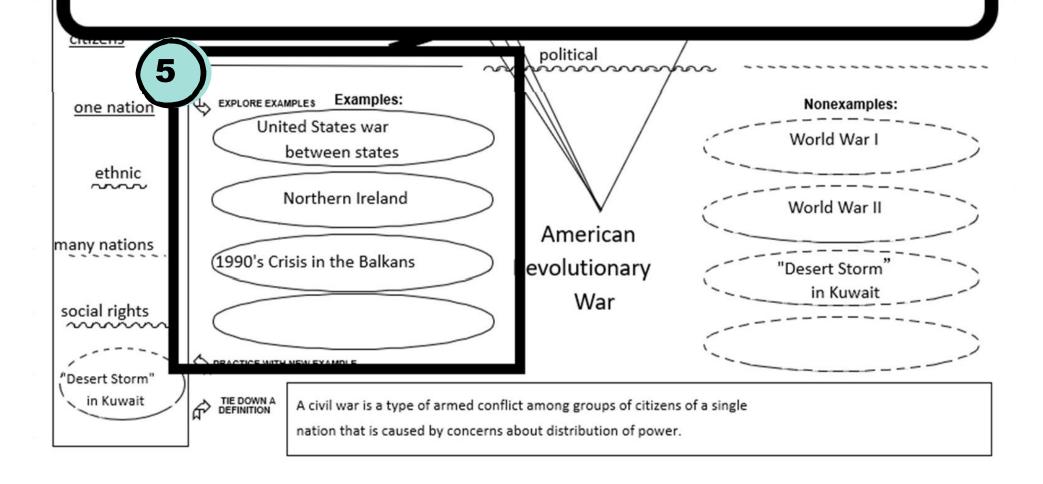
CONCEPT DIAGRAM CONVEY CONCEPT **Key Words** Civil War armed conflict OFFER OVERALL CONCEPT NOTE KEY WORDS CLASSIFY CHARACTERISTICS U.S. Civil War **Always Present Sometimes Present Never Present** groups of citizens War between nations economic Northern within a single nation religious Ireland about distribution of power ethnic social citizens political Evamples EXPLORE one nation ethnic Sometimes Characteristics many nations (199 Are found in SOME but not all examples of the concept class. social rights PRACT "Desert Storm" DEFIN in Kuwait



Ask Me Questions

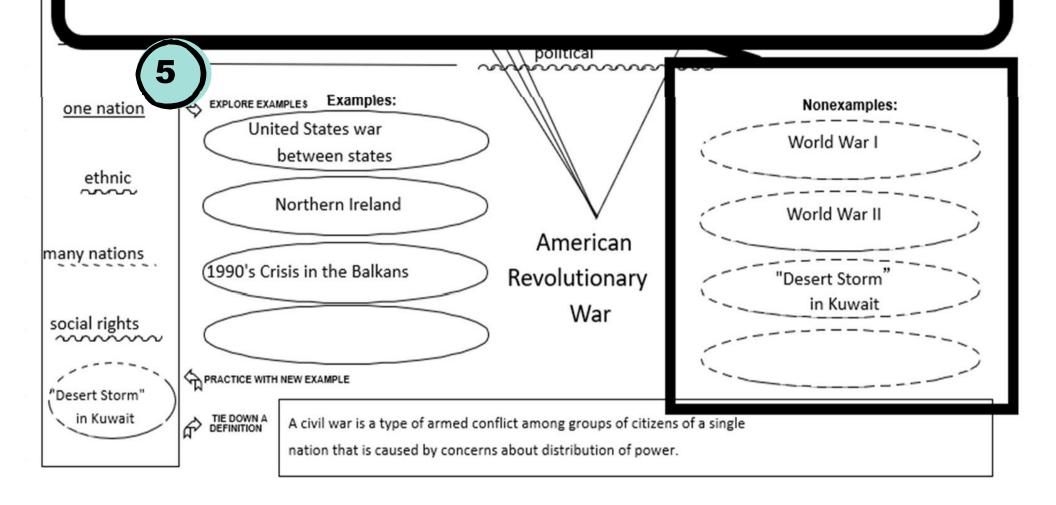
Examples

Examples are instances that possess all of the Always Characteristics, none of the Never Characteristics, but some of the Sometimes Characteristics.



Nonexamples

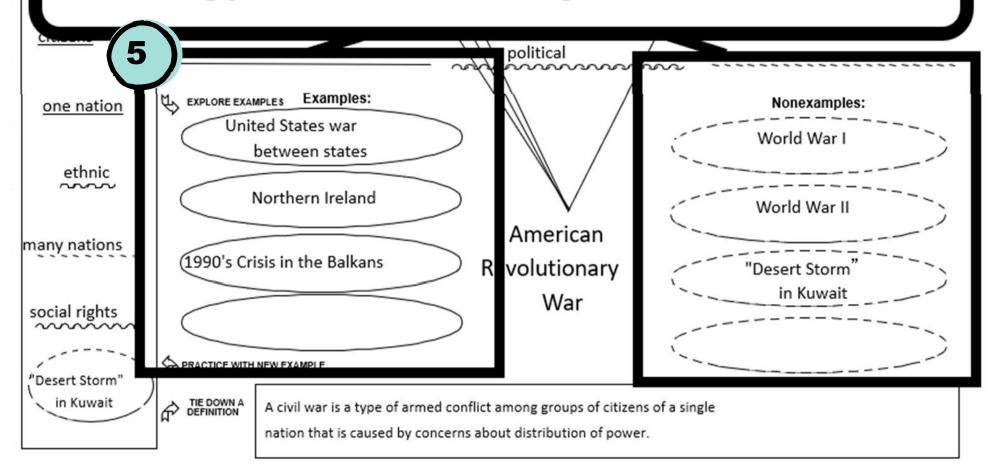
Nonexamples are instances that are missing one or more of the Always Characteristics and/or have one or more of the Never Characteristics.



Pairs of Examples and Nonexamples

Construct the first pair of examples and nonexamples so that students can easily distinguish between them.

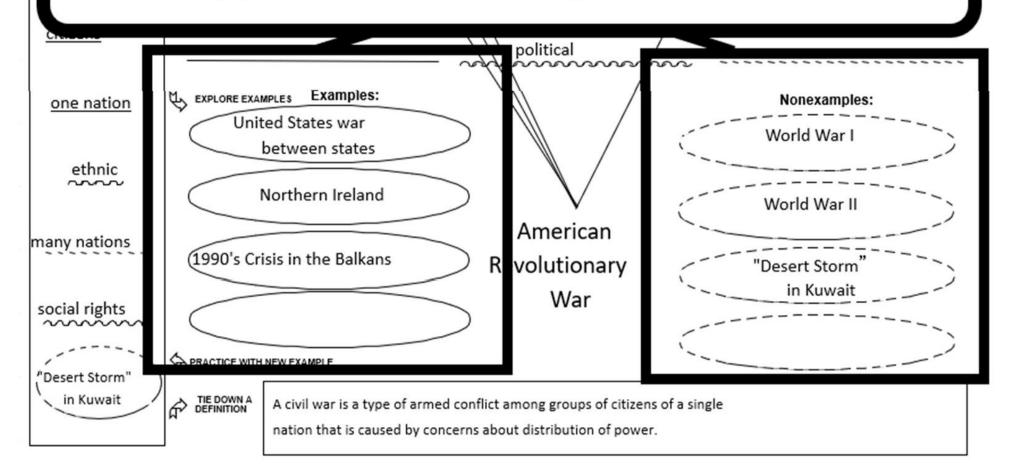
Then, construct pairs of examples and nonexamples that are increasingly more difficult to distinguish from each other.

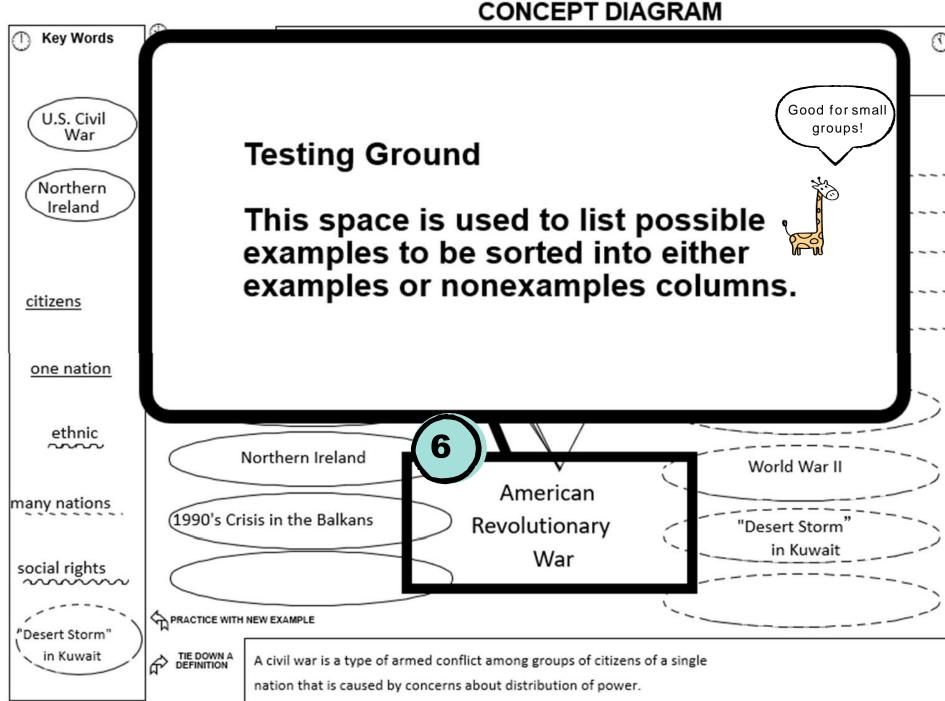


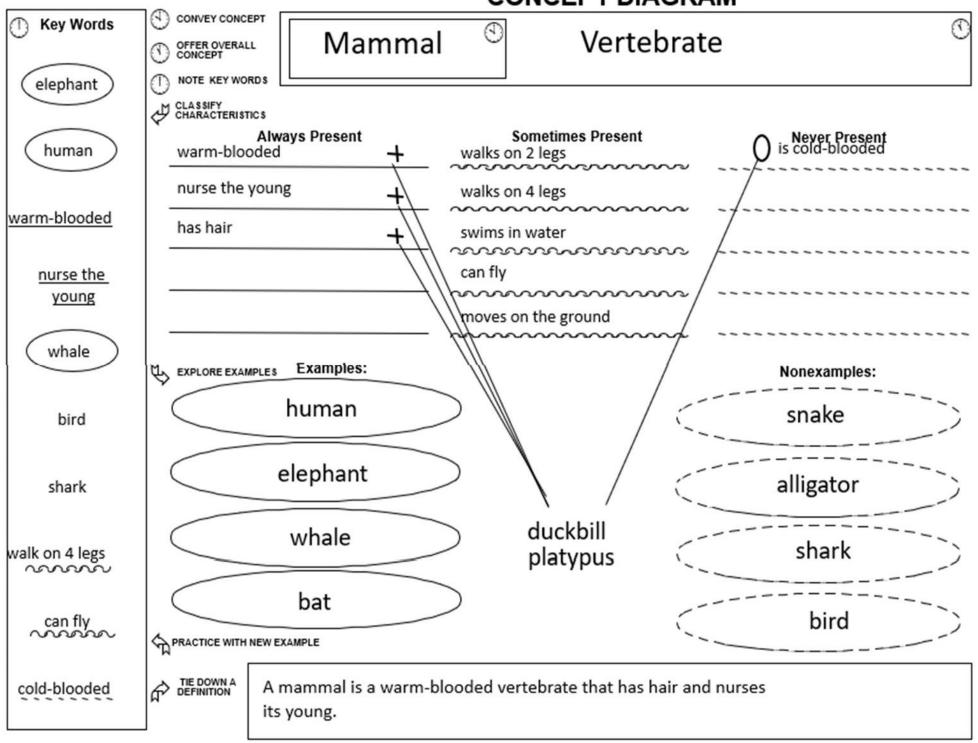
Pairs of Examples and Nonexamples

Construct the first pair of examples and nonexamples so that students can easily distinguish between them.

Then, construct pairs of examples and nonexamples that are increasingly more difficult to distinguish from each other.







(1) Key Words

CONVEY CONCEPT

OFFER OVERALL CONCEPT

Civil War

armed conflict

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RACTICE WITH NEW EXAMPLE

TIE DOWN A

A civil war is a type of armed conflict among groups of citizens of a single nation that is caused by concerns about distribution of power.

CONCEPT DIAGRAM **Key Words** resent If you are struggling to draft try a different sequence... 1, 2, 7, 4, 5, 6, 3 Always Coconstruct!

RACTICE WITH NEW EXAMPLE

The CONCEPT Linking Steps



- Offer the overall concept name
- Note the key words
- Classify the Key Words
- **Explore Examples**

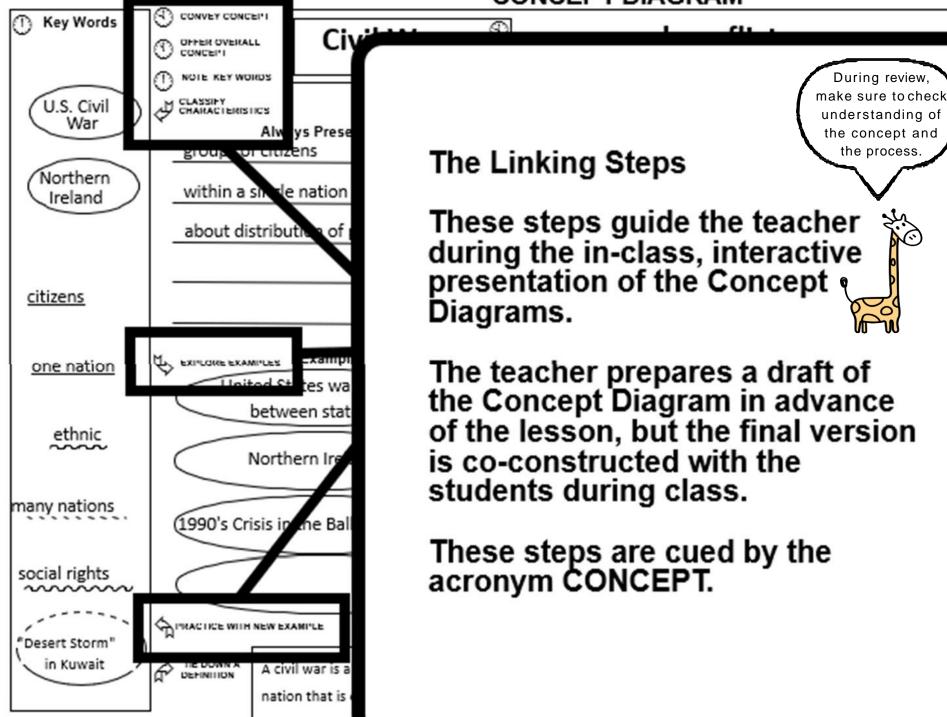
Practice with a new example

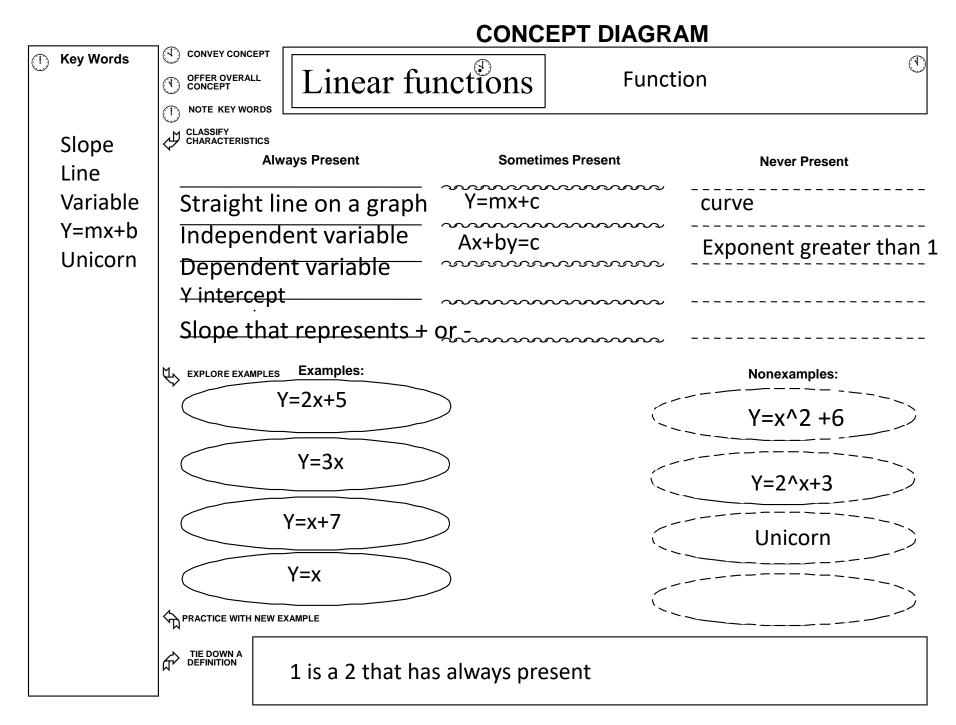
Tie Down a Definition

Remember: Cue Do-Review is the instructional sequence used to teach all CERs









Linear function is a function that always has a straight line on the graph, and independent and dependent variable, with a slope that represents + or – and a y intercept.

