

Thinking Deep

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Austin Public Schools



THINKING MAPS®

Today's Objectives

David's presentation on increasing depth and complexity.

The learner will...

...use a variety of map combinations to increase the depth of their thinking.

...use signal words to help students identify which map supports their thinking.

Participants will use map combinations and signal words with students

Complexity of thinking will increase

Students critical thinking will increase

Participants practice using map combinations and signal words with students

Where did you get your
Information from?

**WHY IS THIS
INFORMATION
IMPORTANT?**

How have you used
Thinking Maps in
your classroom?

What subjects
have you used
Thinking Maps
in?

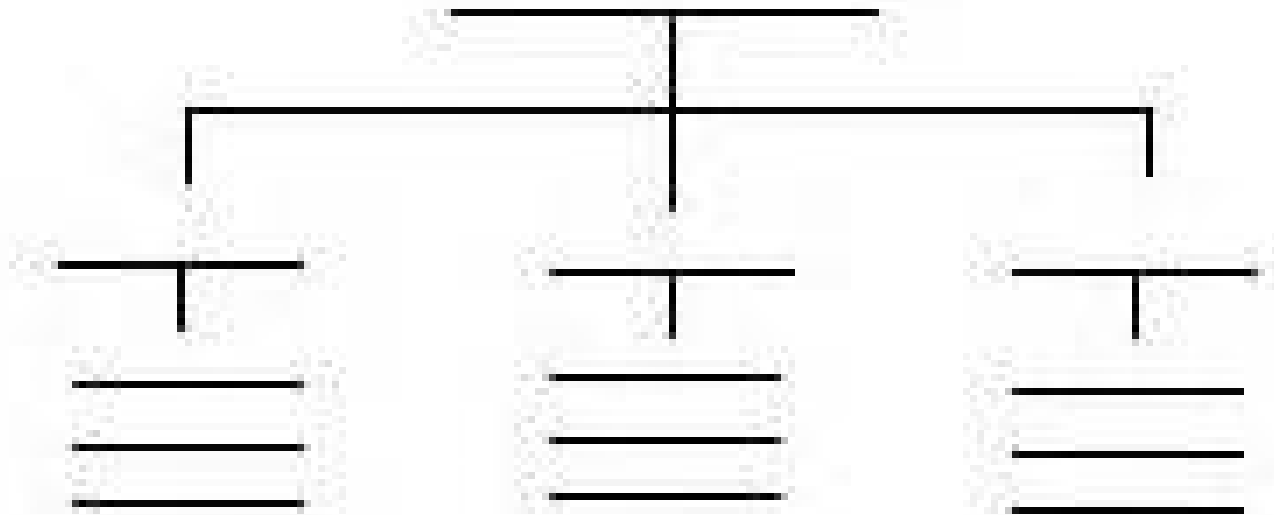
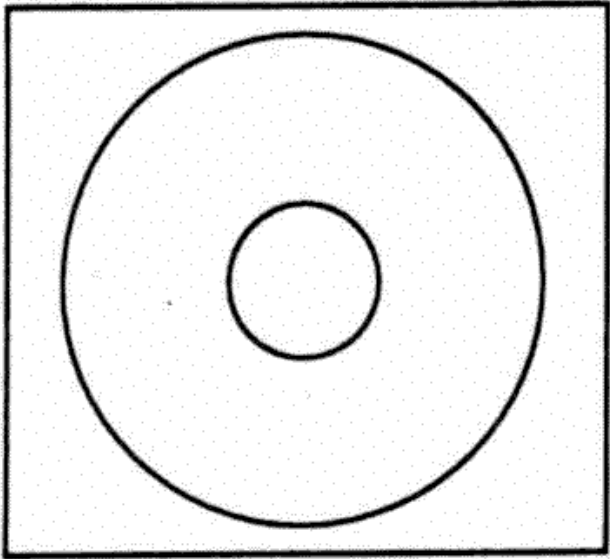
Thinking
Maps

Which maps have
you used most
frequently?

Who is using
Thinking Maps in
your school?

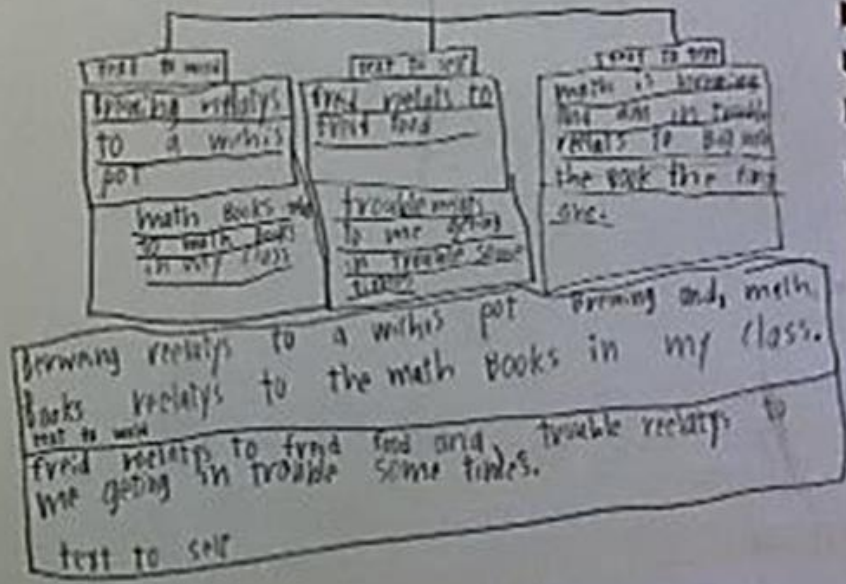
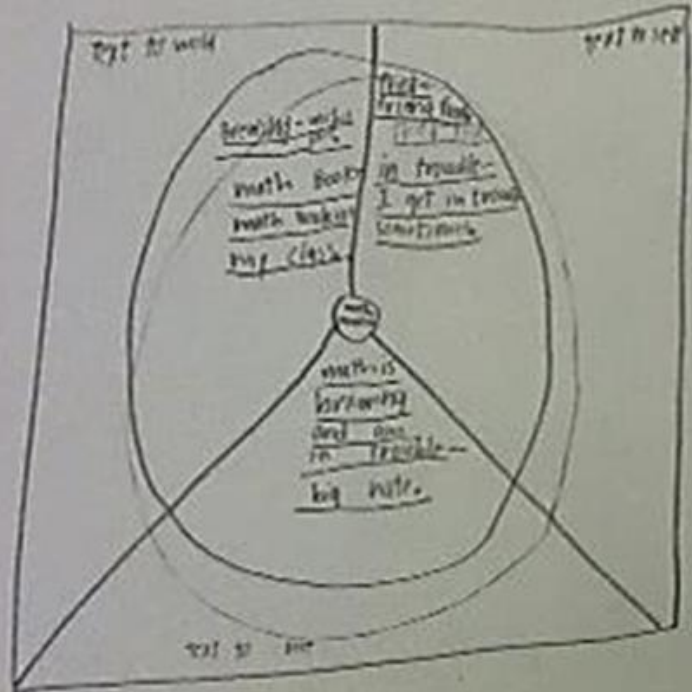
Whose point of view
are you thinking from?

**ADDING DEPTH & COMPLEXITY TO
OUR THINKING**

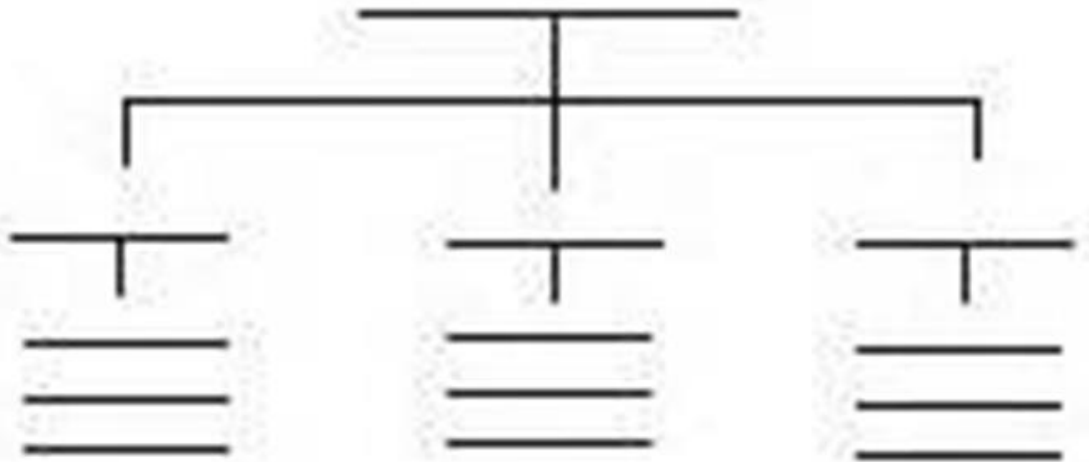
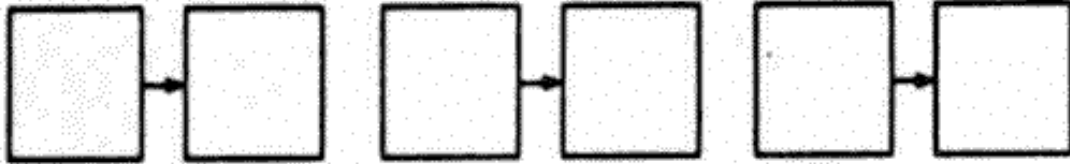


relating. is a premiss for
factor

worry rich people a nice car a happy grown up a dull pencil Maths cars with grace new covers breakfast paper



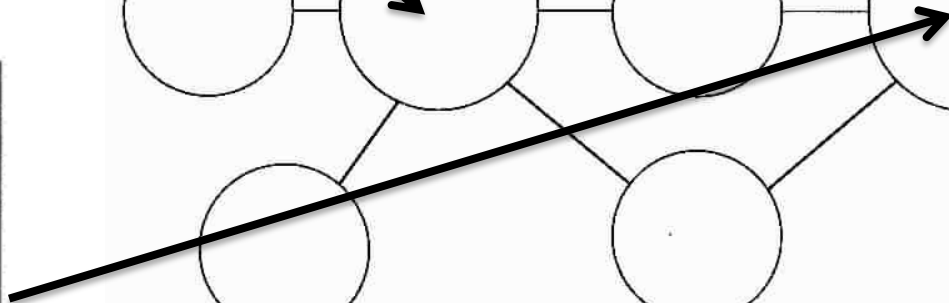
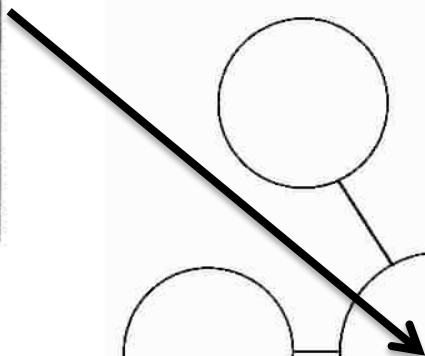
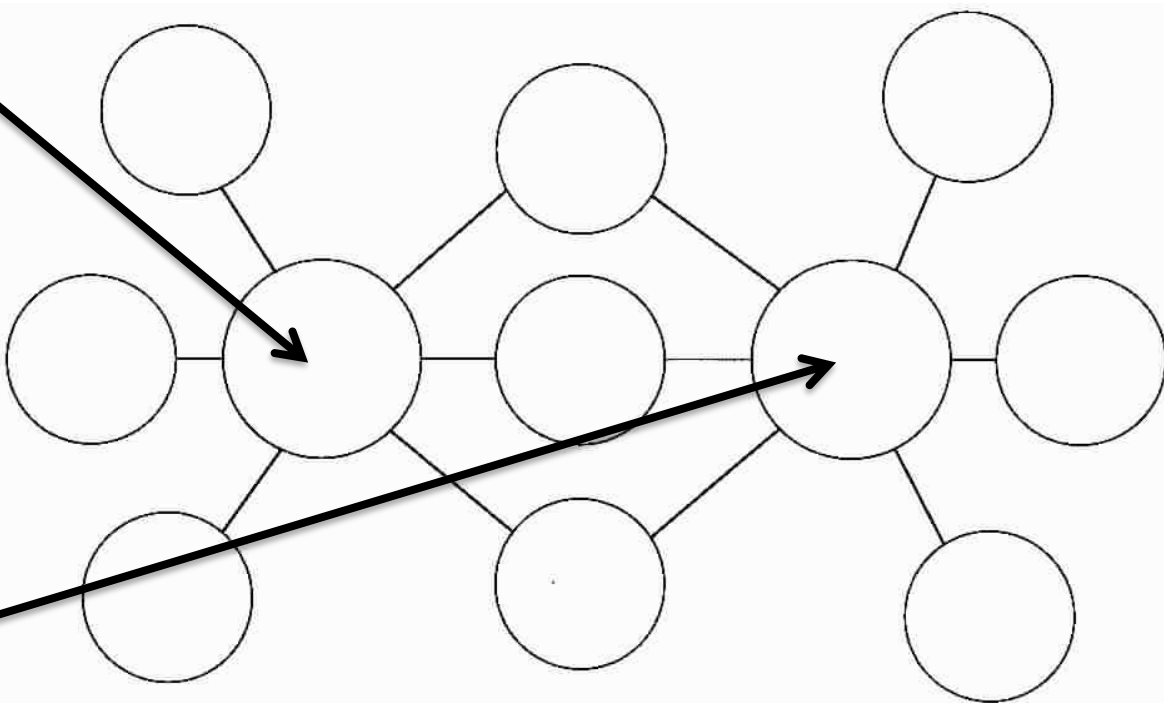
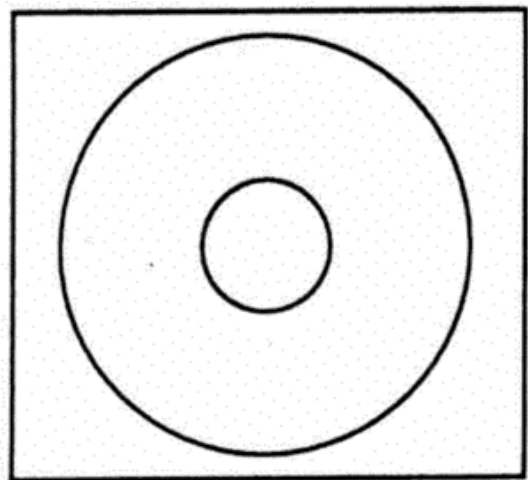
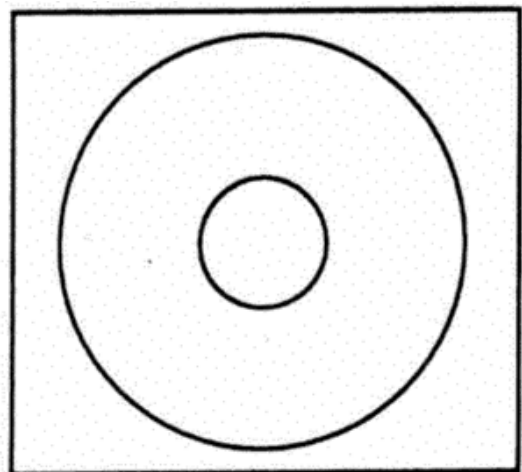
“Flee Map”





“To proud to speak”

Retell the story
in your words



Challenge?

Learn?

Makes me
Think hard

How to
Solve prob.
Faster

helps
Solve Problems

Learn new/more
puzzles to
Share w/ class

for extra
Challenge

Brain Teasers
Logic Puzzles

get better
improve skills

Brain Teasers
like Flappy Bird -
addicting & want to
find the answer

Mr Kossori
tells Teasers & Puzzles
each week

I do it a lot
w/ Teacher
lots of Practice

Why go?

Successful Class

Why do I want to go?

like
Challenge?

help make the class successful?

like mysteries -
Sunisid Mystery

Teach me how
investigators do their
jobs -
benefits of their
job

investigations

Murders
Problem-solving

Who-Dun-its

CSI
Investigation

Don't like to just
Read to solve
but to do it

Hands on
Activities

Teacher

Figure out
investigations

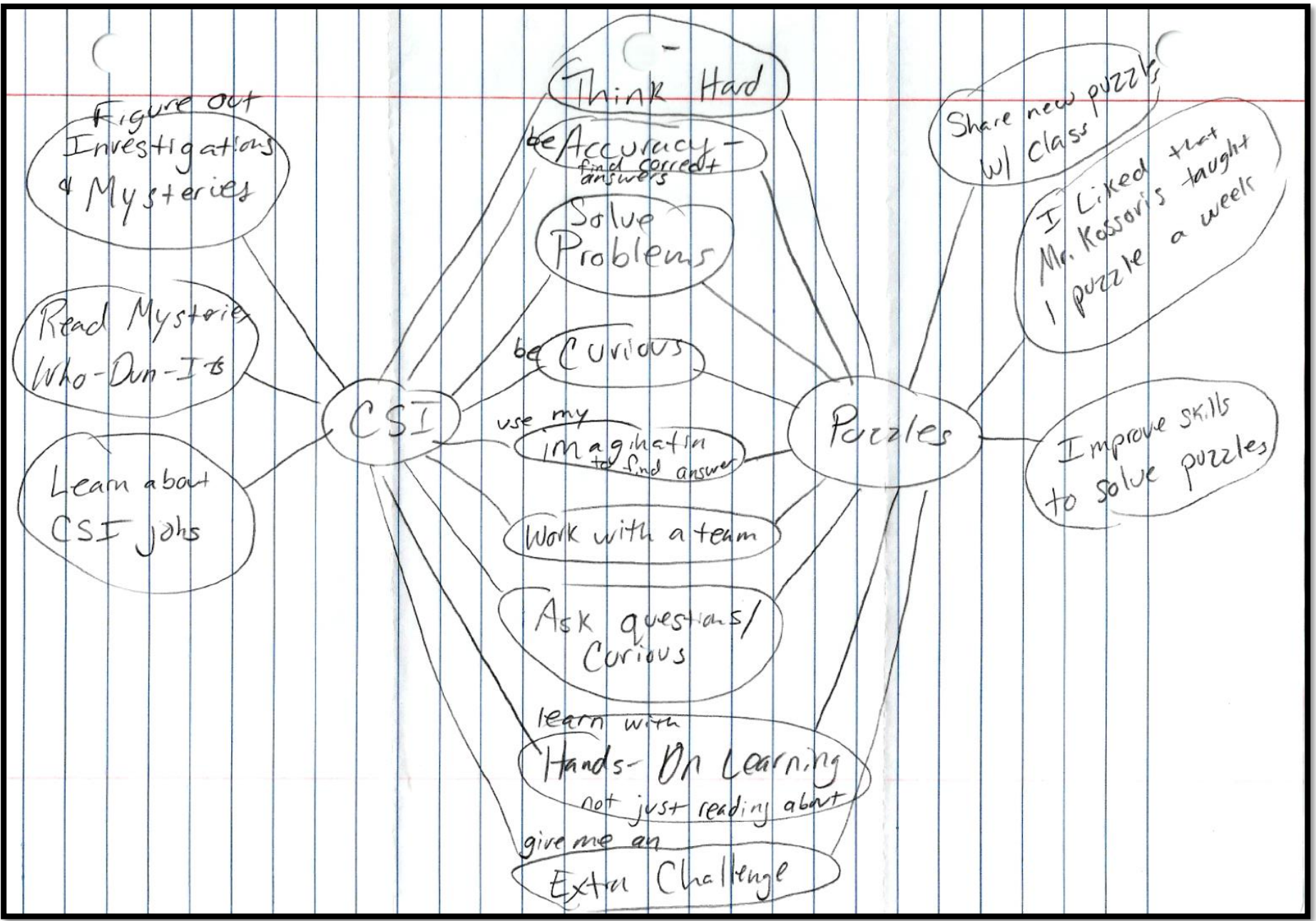
Ask questions
to learn

Team player

Curious

like to be accurate

What am I going to learn?



CSI

Puzzles

Think Hard

Accuracy - find correct answers

Solve Problems

be Curious

use my imagination to find answer

Work with a team

Ask questions/ Curious

learn with Hands-On Learning not just reading about

give me an Extra Challenge

Share new puzzles w/ class

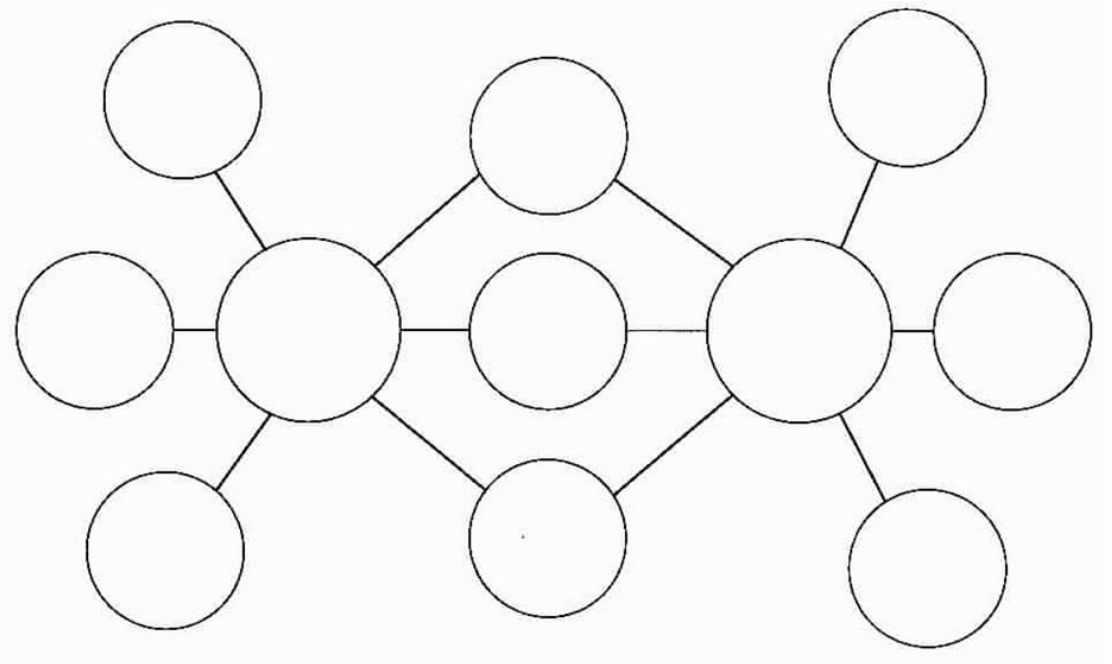
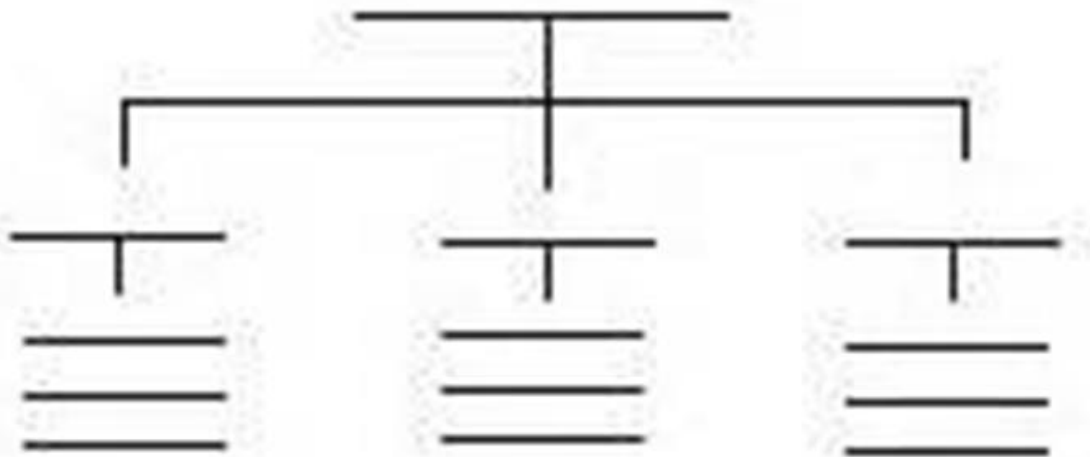
I Liked that Mr. Kassar's taught 1 puzzle a week

Improve skills to solve puzzles

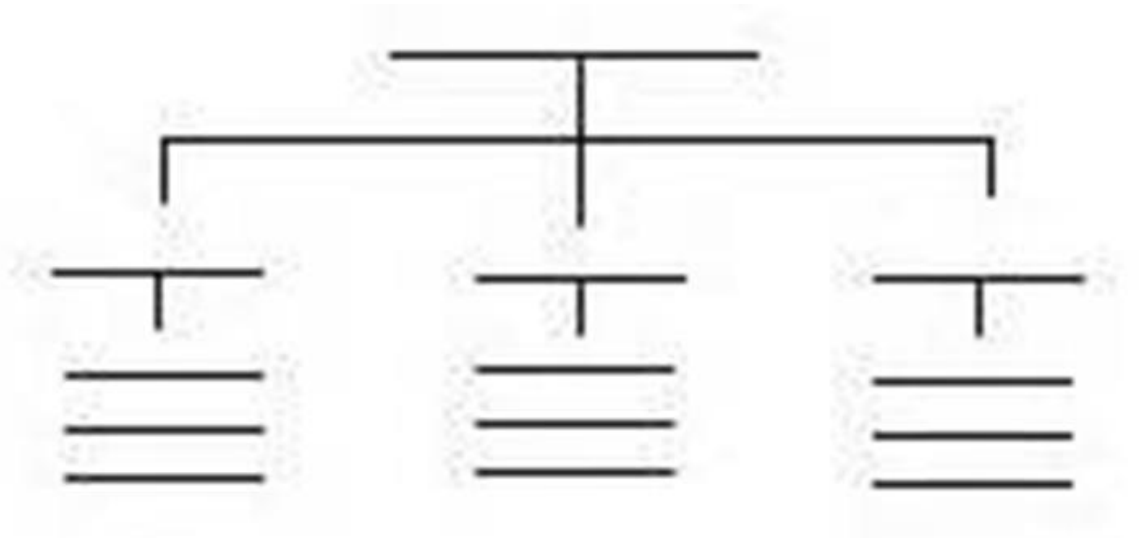
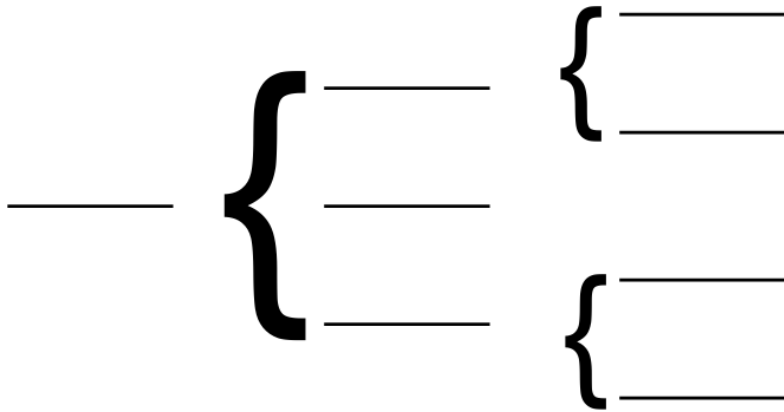
Figure out Investigations & Mysteries

Read Mysteries Who-Dun-Its

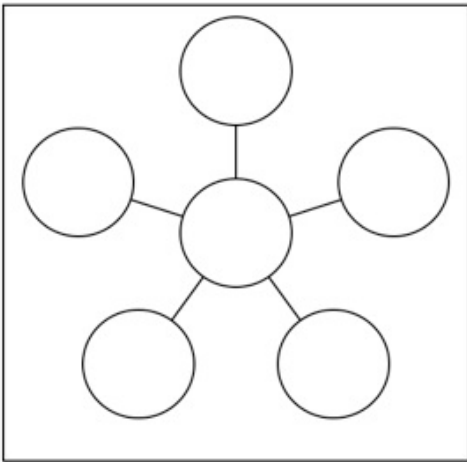
Learn about CSI jobs



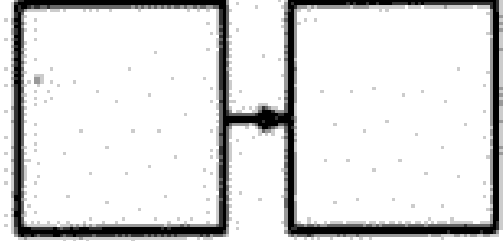
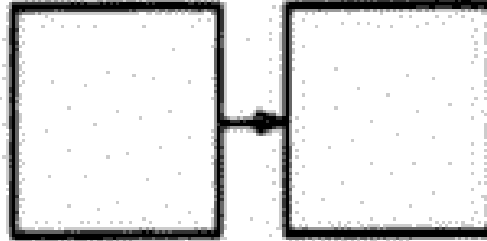
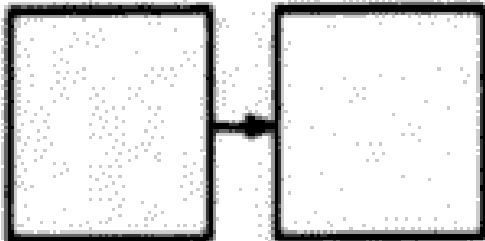
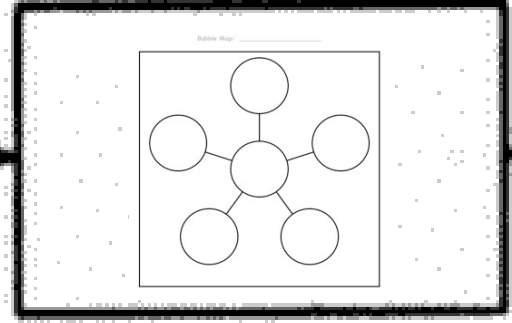
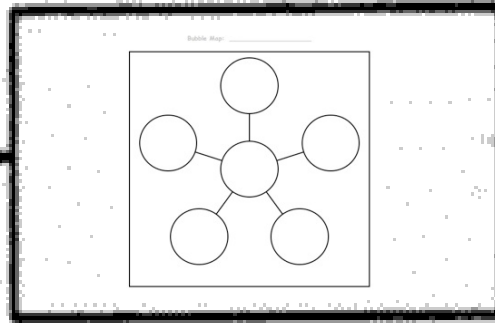
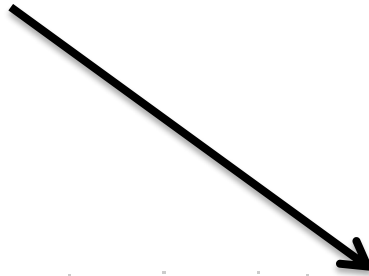
“Bree Map”



Bubble Map

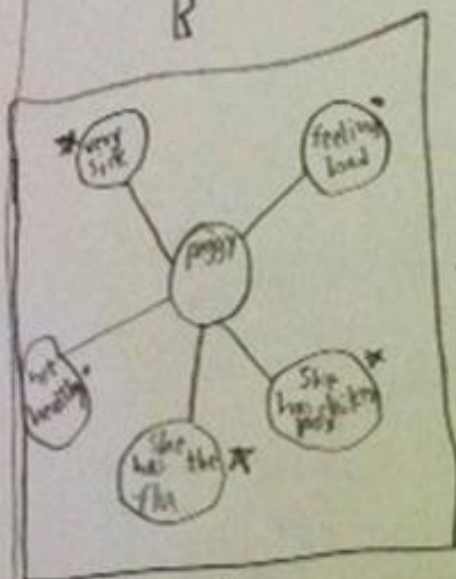


“Blow Map”

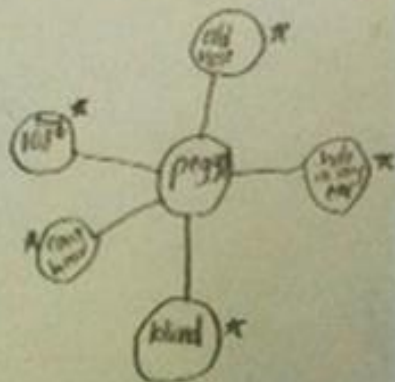


Noah's.

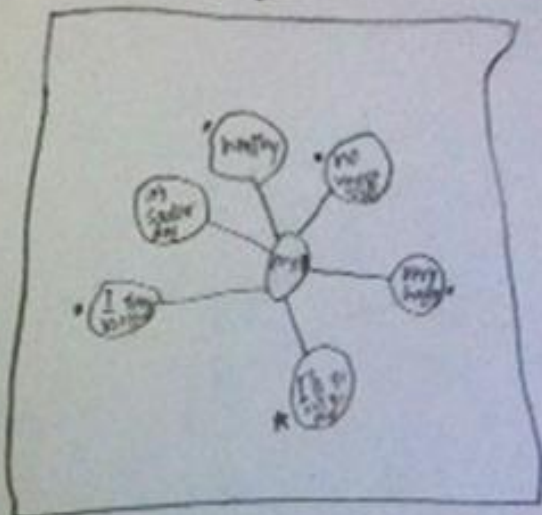
B



M



E



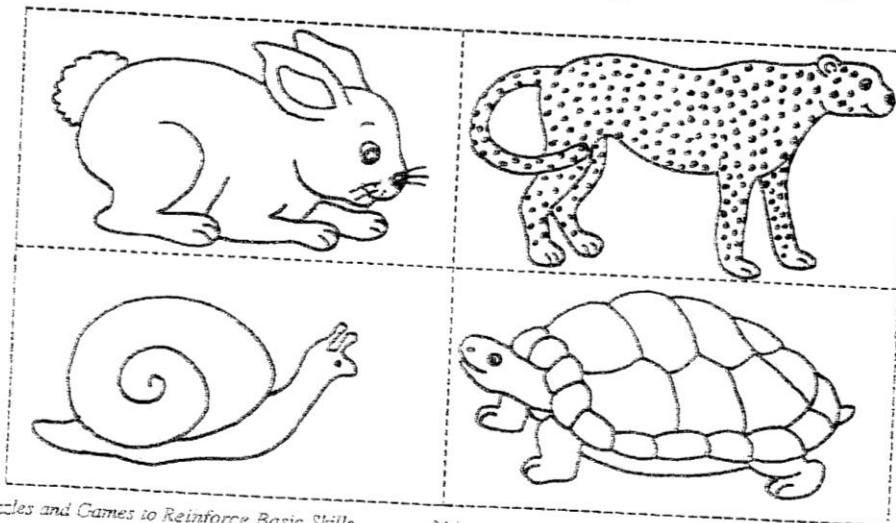
* the poem is
not very
old

Fast and Slow

fast

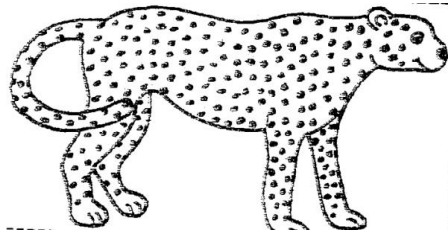
slow

Directions: Cut out and glue the pictures in the right boxes above.

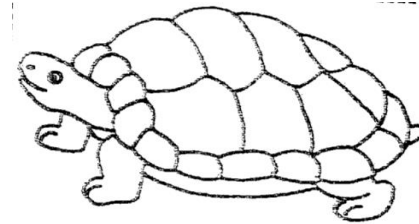
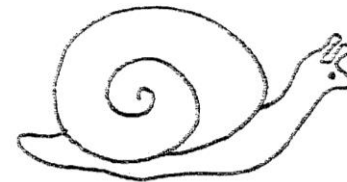


MOTION

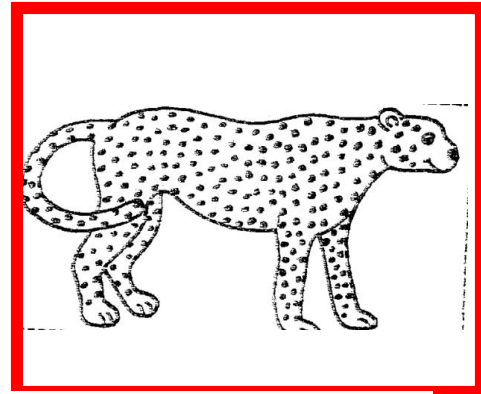
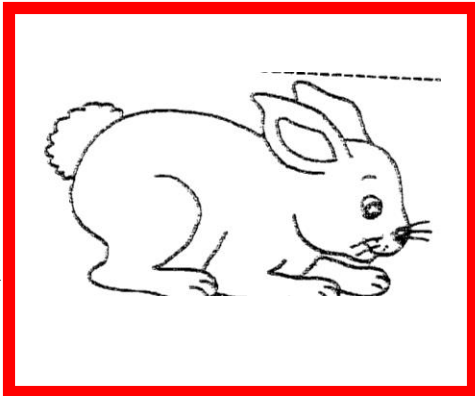
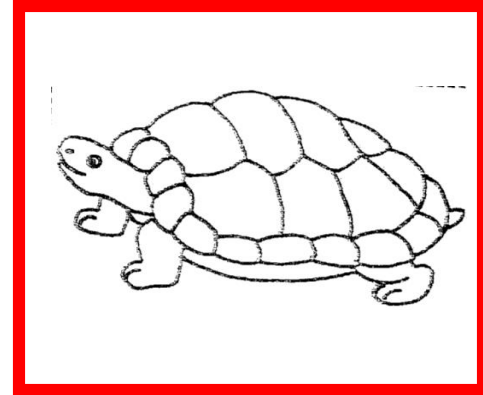
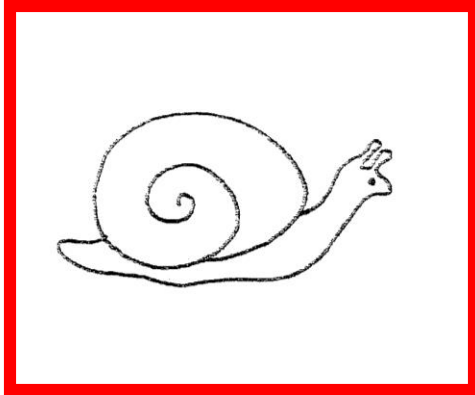
Fast



Slow



Academic Rigor



slides



crawls

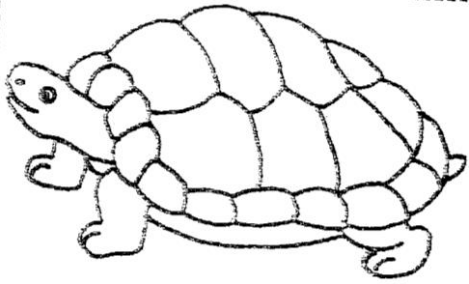


hops

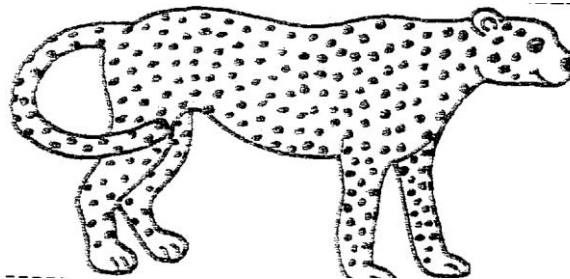


runs

Academic Rigor

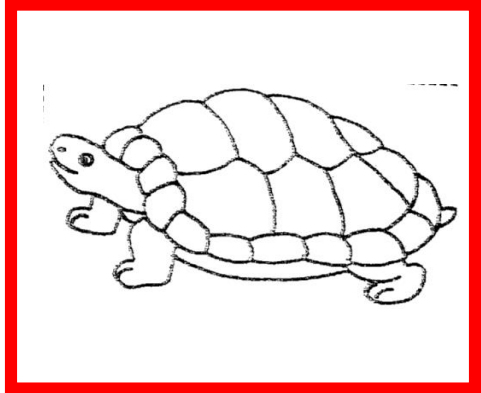


Three horizontal blue lines for writing, grouped by a large blue curly bracket on the left side.



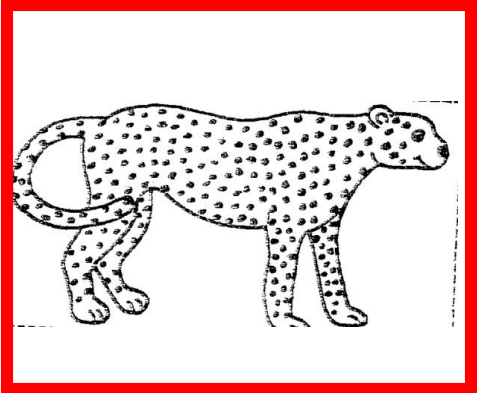
Three horizontal blue lines for writing, grouped by a large blue curly bracket on the left side.

The turtle is slow



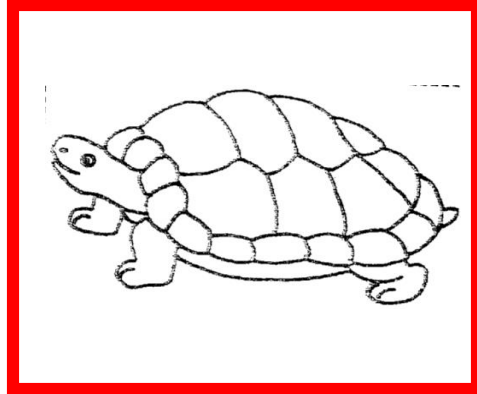
Academic Rigor

The leopard is fast.

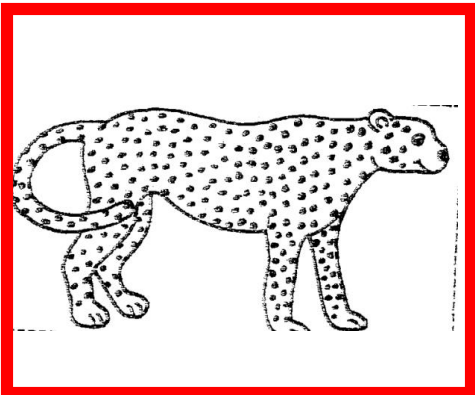


Academic Rigor

What if the turtle didn't have a shell on its back. . .

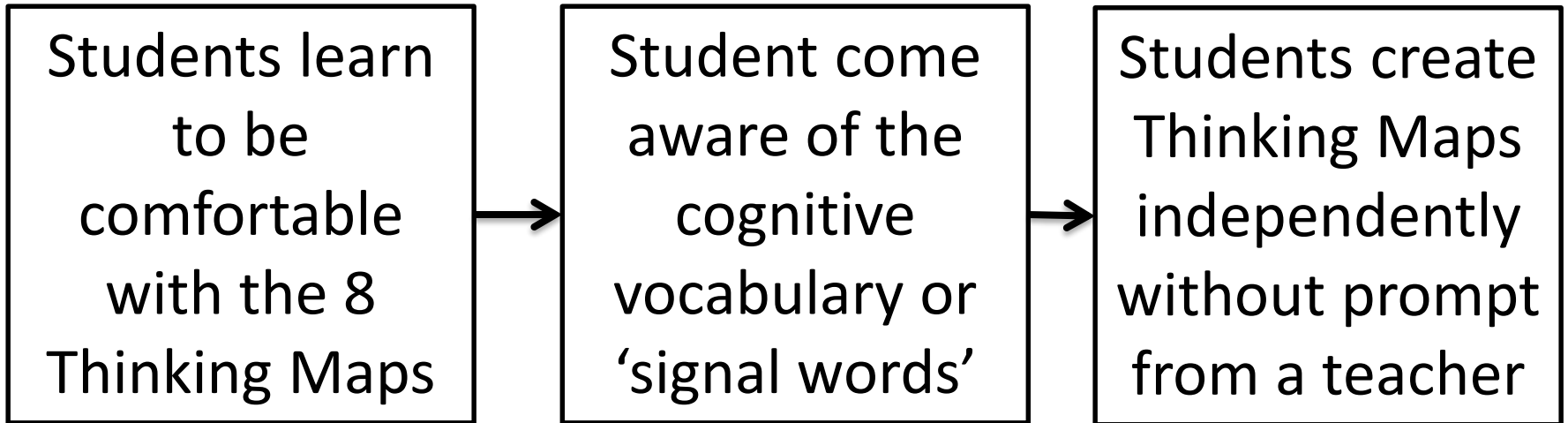


What if the leopard had short little legs. . .

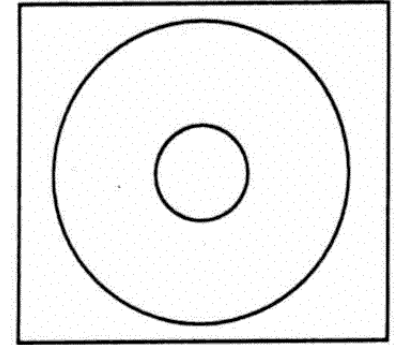


COGNITIVE VOCABULARY

Autonomous Learners



Circle Map



Signal Words:

Define

List

Identify

Tell all about

Brainstorm

Generate

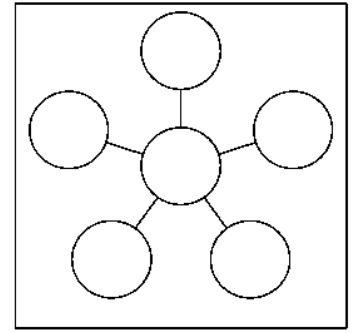
What is the definition of ...?

What do you know about...?

How would you define...?

Tell me everything you know about...

Bubble Map



Signal Words:

Describe

Characteristics

Adjectives

Qualities

Use vivid language

Properties

Use your 5 senses

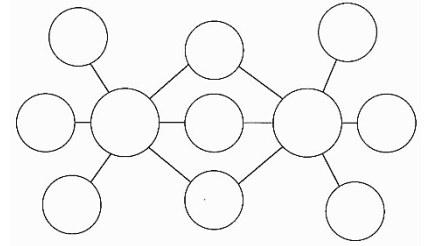
How would you describe...?

What characteristics can be used to describe...?

What are the properties of?

What are all the words we can use to describe ...?

Double Bubble Map



Signal Words:

Compare

Similarities

Differences

Both

Distinguish

between

Differentiate

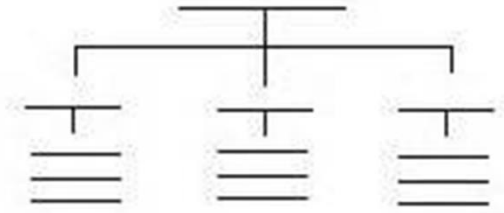
How are ___ and ___ alike? /
Different?

*What is the most important
difference...?*

*Which similarities do you think
are most important?*

*Are there details that are
unique to one thing but not the
other?*

Tree Map



Signal Words:

Classify

Categorize

Related Details

Types of

Kinds of

Sort

Group

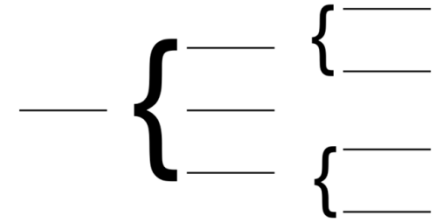
A ___ is a member of which category?

Which is the following detail about...?

How would you group this information?

Can you sort these ideas into groups?

Brace Map



Signal Words:

Parts of
Structure
Components
Take Apart

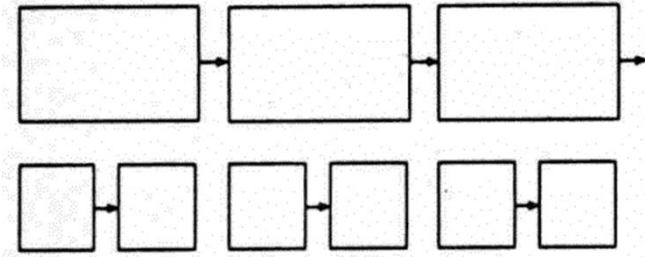
What are the parts of...?

What is the idea part of?

What parts are missing?

Can the parts be broken into subparts?

Flow Map



Signal Words:

Sequence

Stages

Cycles

Patterns

Steps

Retell

Put in Order

Show the Process

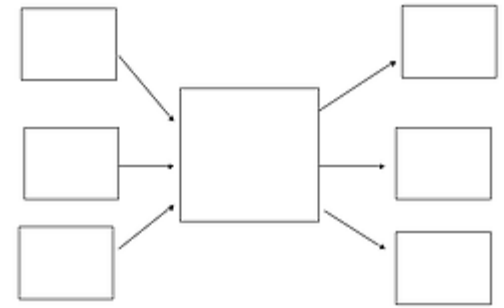
Which step comes first?

What are the stages of each event?

In what order should you sequence these things?

What happens next?

Multi-Flow Map



Signal Words:

Cause/Effect

Consequences

Benefits

Why

Outcomes

If...then...

Because

Reason/Motivate

Impact

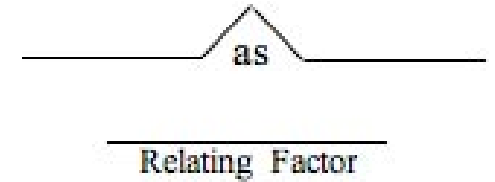
Why did...?

What are the benefits of...?

What will the results of this event be?

What was the motivation behind this event?

Bridge Map



Signal Words:

Relationship

Analogy

Metaphors

Symbolism

Similes

Guess the Rule

What is the relationship between these two words?

What other pairs of relationships have the same relating factor?

How are ___ and ___ related?

What sentence can you write with these two words?

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...use signal words to help students identify which map supports their thinking.

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