

A New Way Of Thinking

David Wolff

District Coordinator of Gifted
& Talented Services

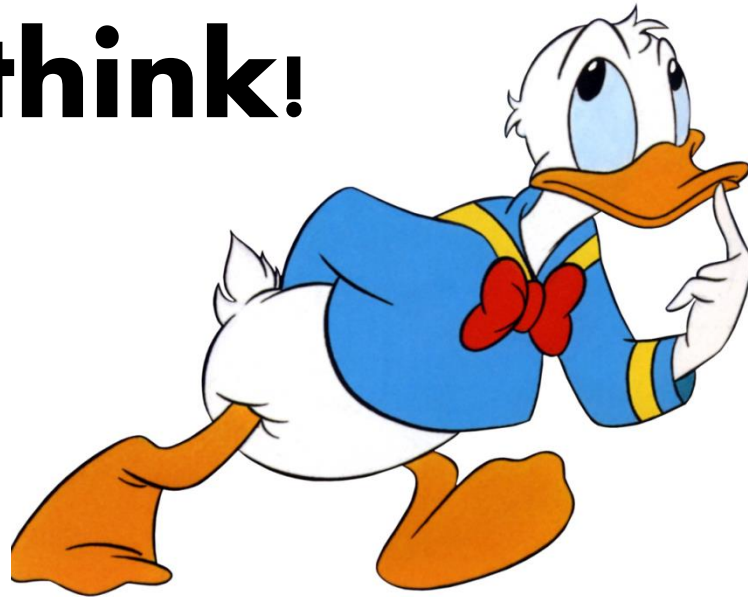
Woodson Instructional Coach

Austin Public Schools



THINKING MAPS

We all think!



THINK



Today's Objectives

David's presentation on Thinking Maps

Participants practice using Thinking Maps

The learner will...
...use a variety of Thinking Maps to organize their thoughts.

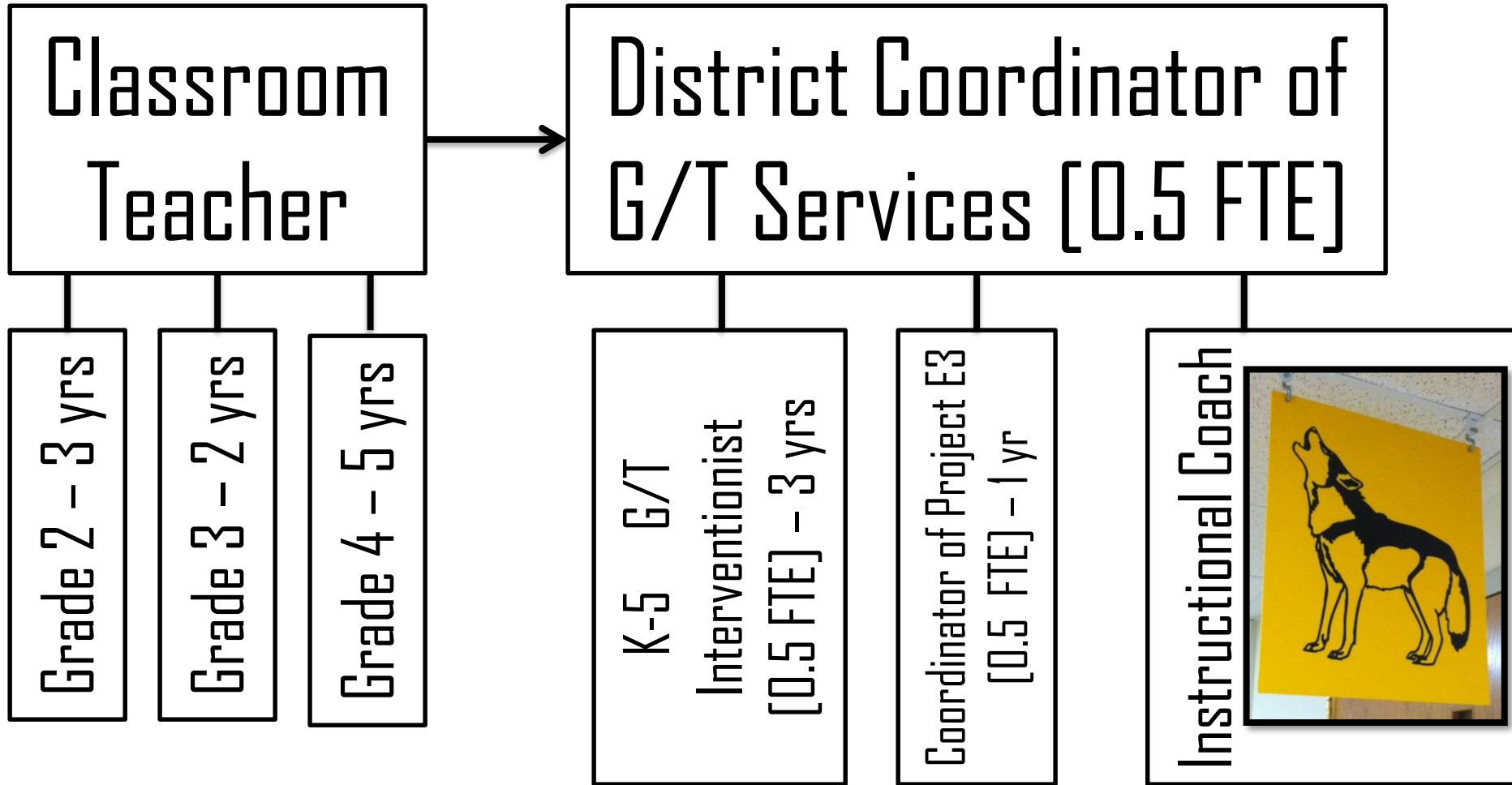
...list and define the 8 Thinking Maps and the associated cognitive functions they support.

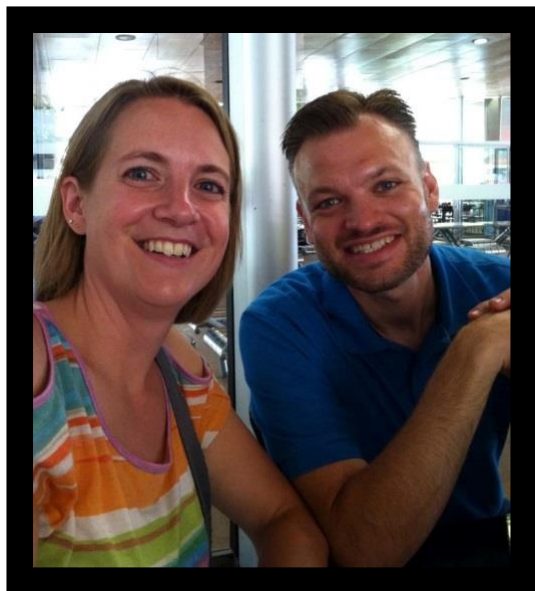
Participants will use Thinking Maps with students

Student engagement will increase

Students critical thinking will increase

Educator for 15 years

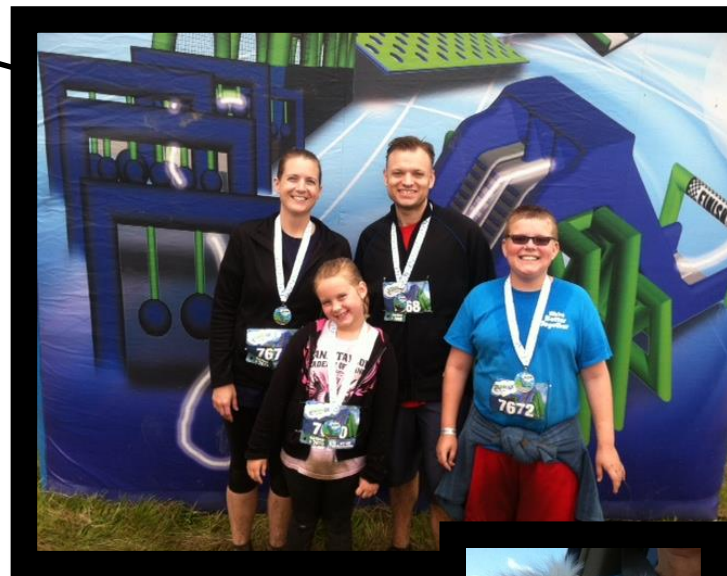




Mentor for MN Adult and Teen Challenge

Enjoy CrossFit, Skiing, & Running

Enjoy Baking & Cooking



Married to Melissa (BSN)

Serve on MEGT Board of Directors

David Wolff

Father to Elliot (6th) and Chloe (2nd)

Puppy named Lizzy



Serve on Math Masters of MN Board of Directors

Leader for Children's Ministry at Cornerstone Church



Where did you get your
Information from?

What/What influences you?

Who are you?

Define
yourself.

Tell about your
interests/hobbies.

Your
Name

Tell about your
professional
experiences.

Tell about your
family

Where did you get your
Information from?

What/What influences you?

What are our
strengths?

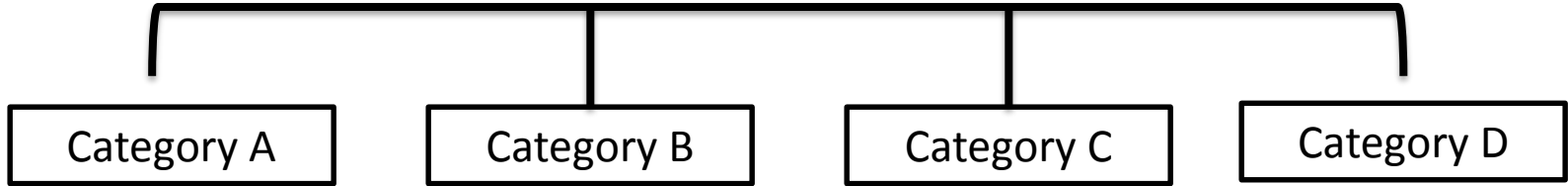
What
improvements
have we
made?

Glow

What are you most
proud of?

What do you
share with others
about us?

Our Glows



RESEARCH SUPPORTING THINKING MAPS

Defining
Thinking
Maps:

Best Practices on
Effective
Instruction

Unique Visuals Patterns

Used by ALL
Teachers

Based on 8
cognitive skills

Thinking
Maps

Applied in ALL
content areas

Can be combined
for depth &
complexity

Brain Research

Support Students
as independent
learners

Types of Visuals

Brainstorming Webs

Mind Mapping

Webbing

Clustering

Content Specific
Graphics

Life Cycles in Science

Venn Diagram in
Math

Timelines in History

Thinking Maps

Defining

Describing

Comparing/Contrast

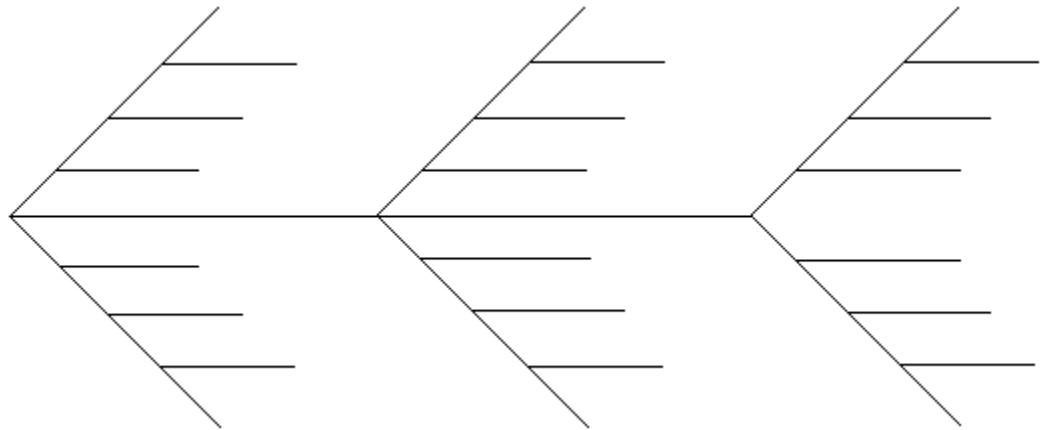
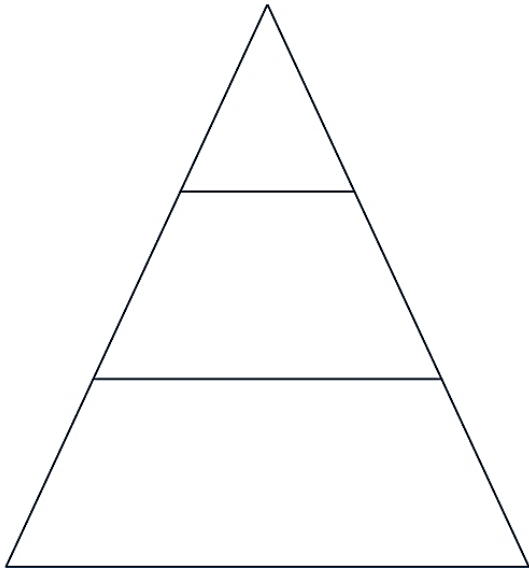
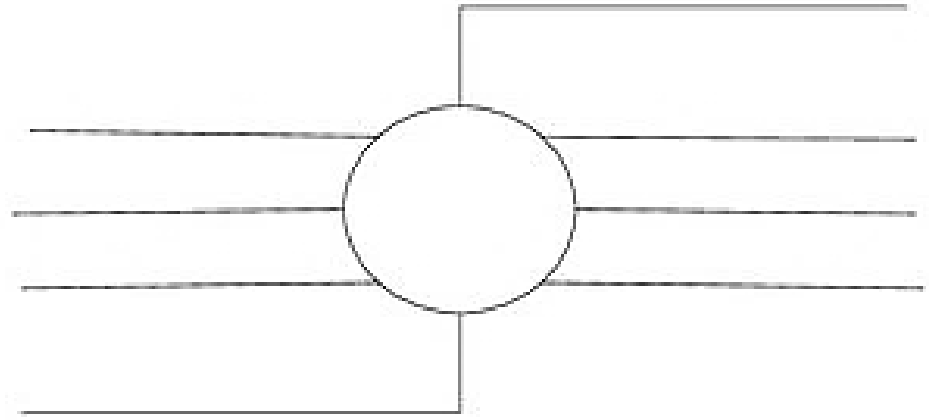
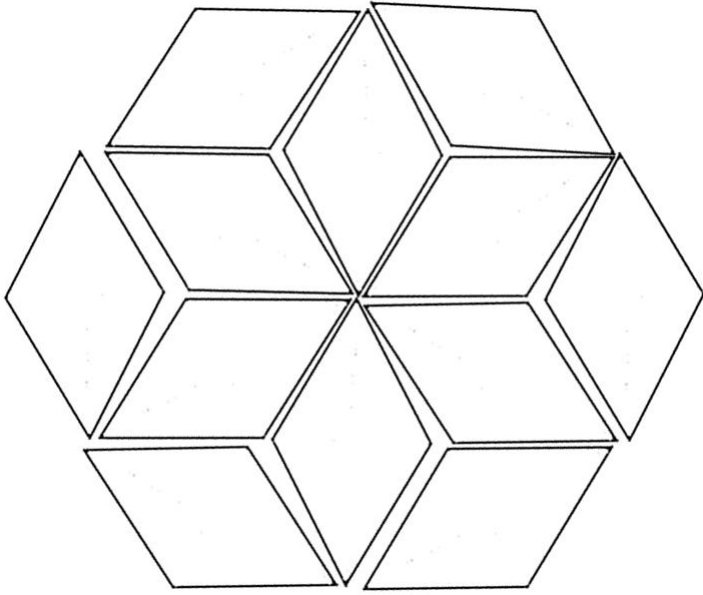
Classifying

Whole-Part
Relationships

Sequencing

Cause/Effect

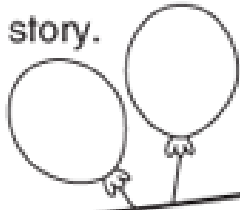
Analogies/
Relationships



Name _____

Showtime!

Plan a story.



Topic: _____

Main idea: _____

Detail: _____

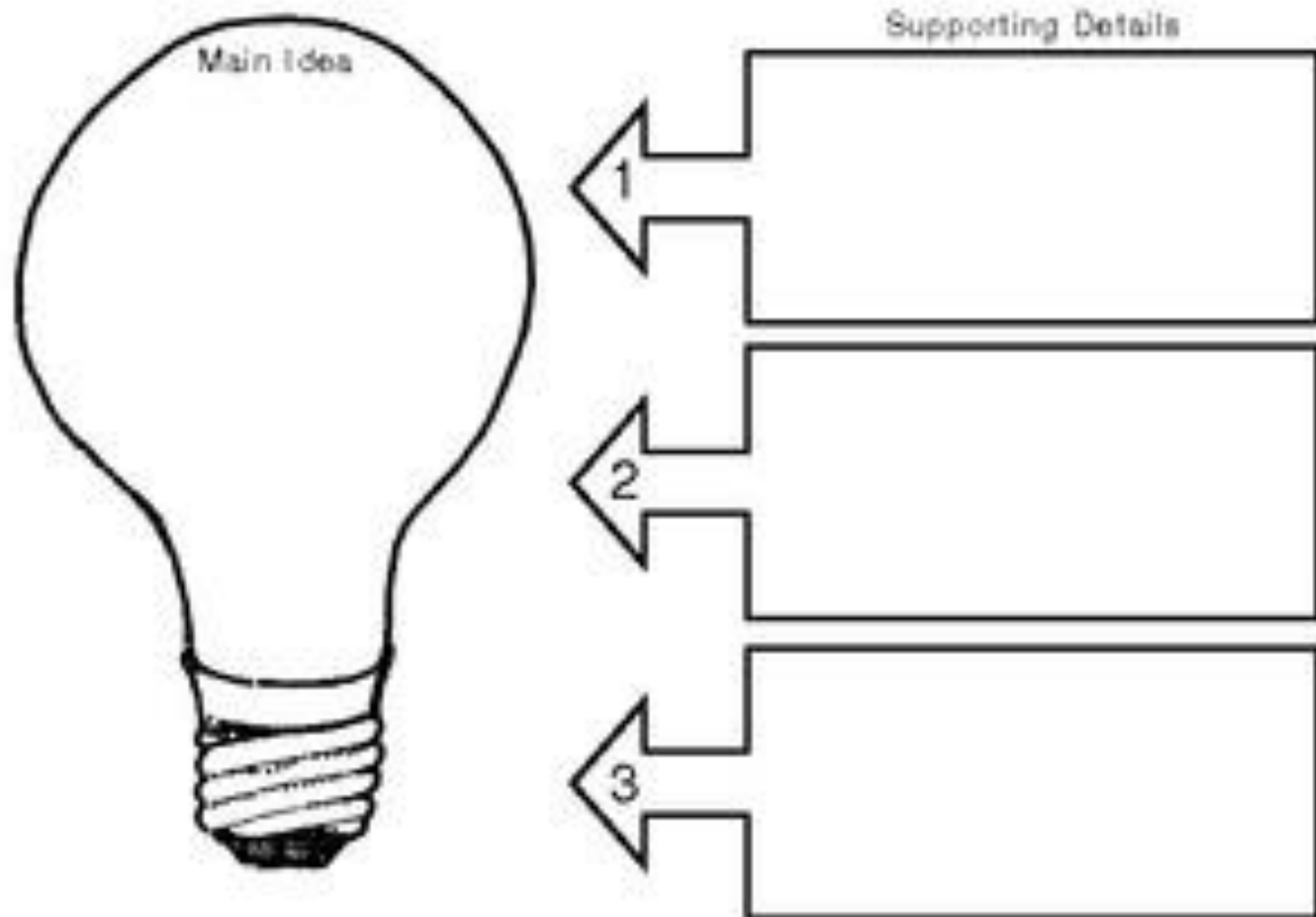
Detail: _____

A black and white line drawing of a circus tent. Inside the tent, a clown wearing a pointed hat and a ruffled collar is holding a small basket. Next to him is a large bear wearing a decorative headband with a flower. The tent has a scalloped edge at the top and is supported by two poles.

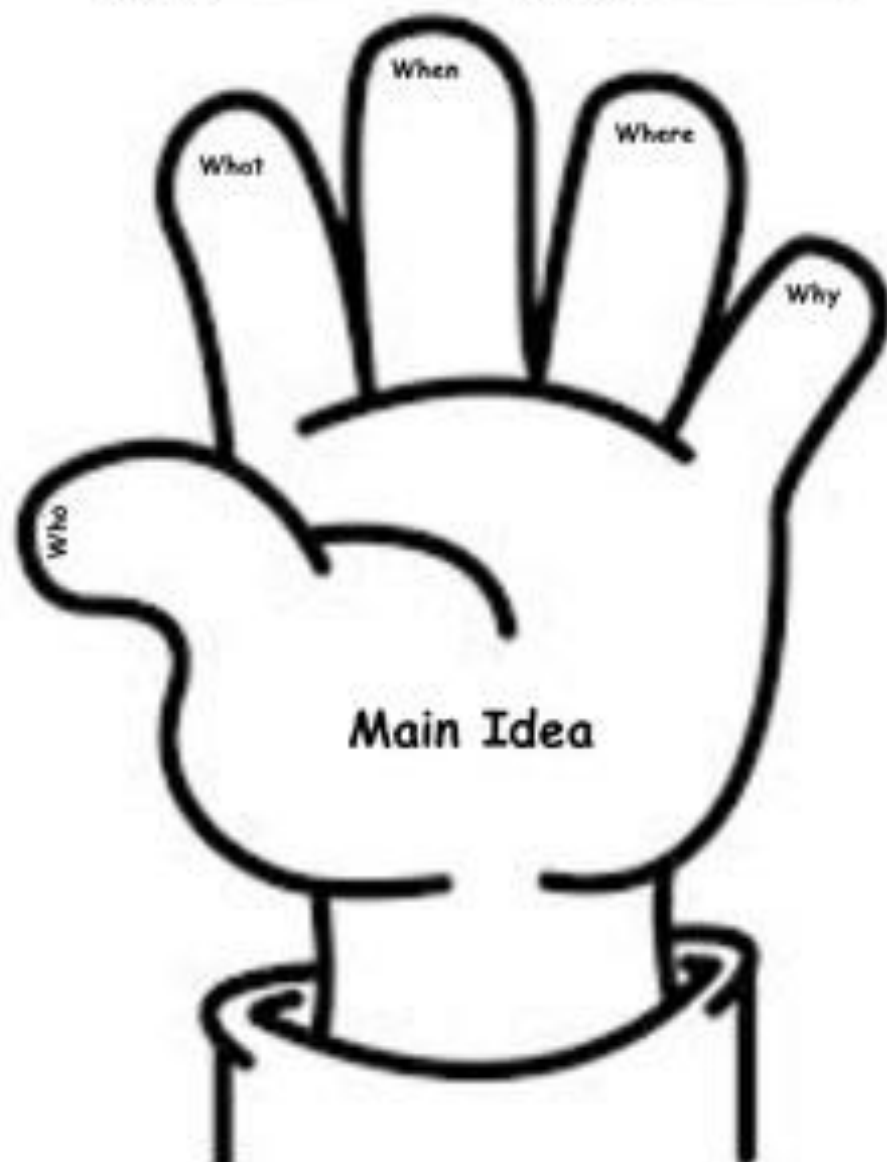
Bonus: Use your plan to write a story.

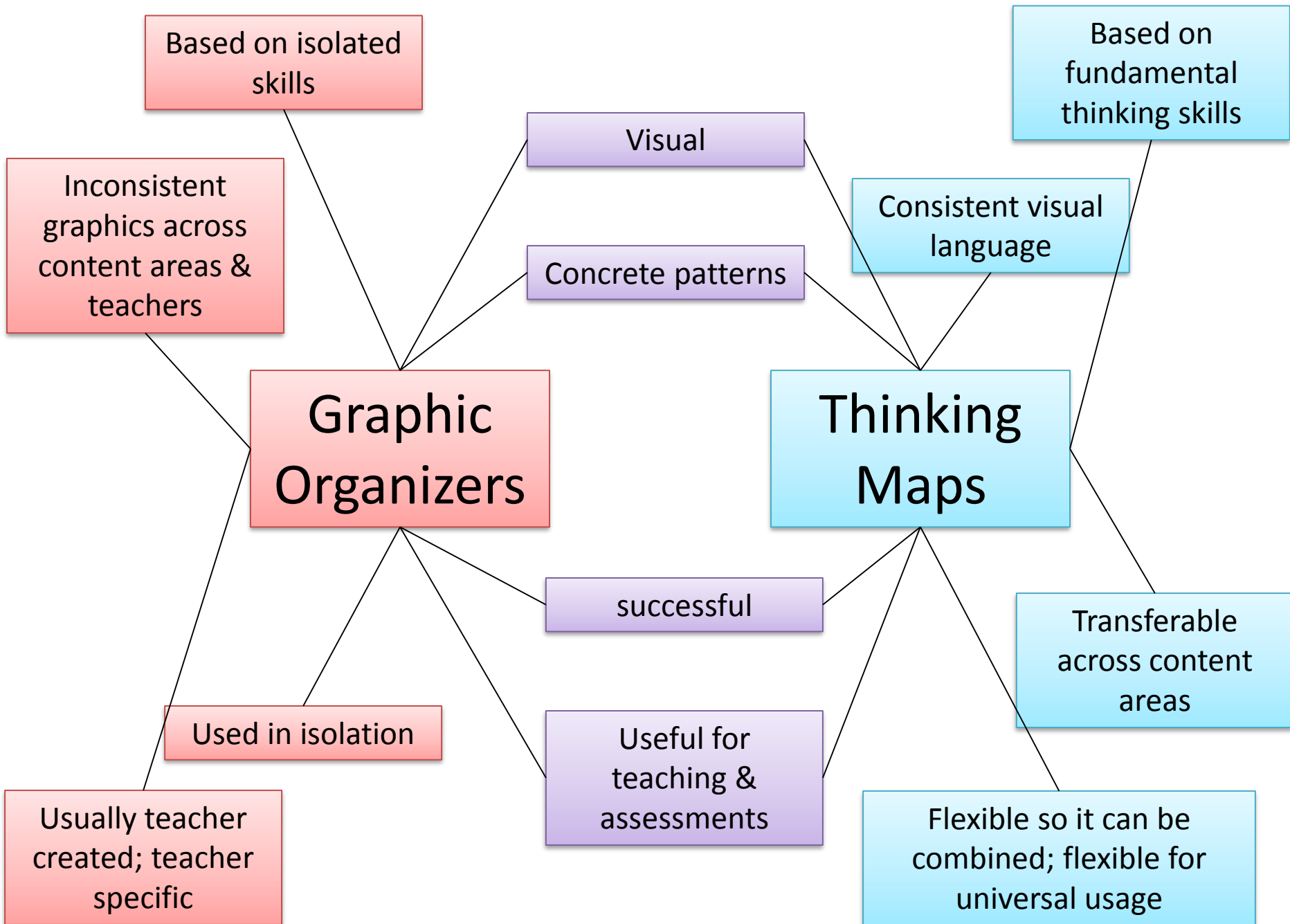
Name _____ Date _____

Main Idea with Supporting Details



Name: _____ Date: _____





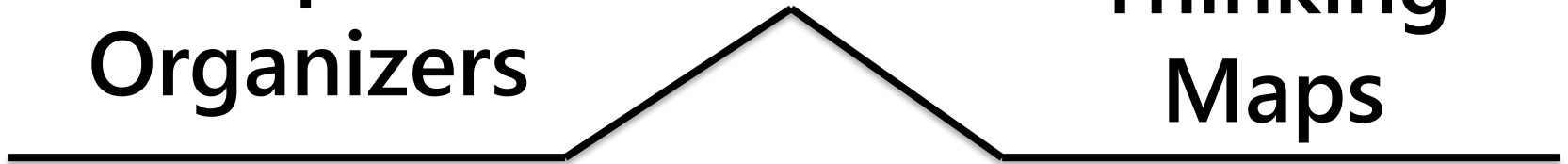
Relating Factor:
Focuses on

**Graphic
Organizers**

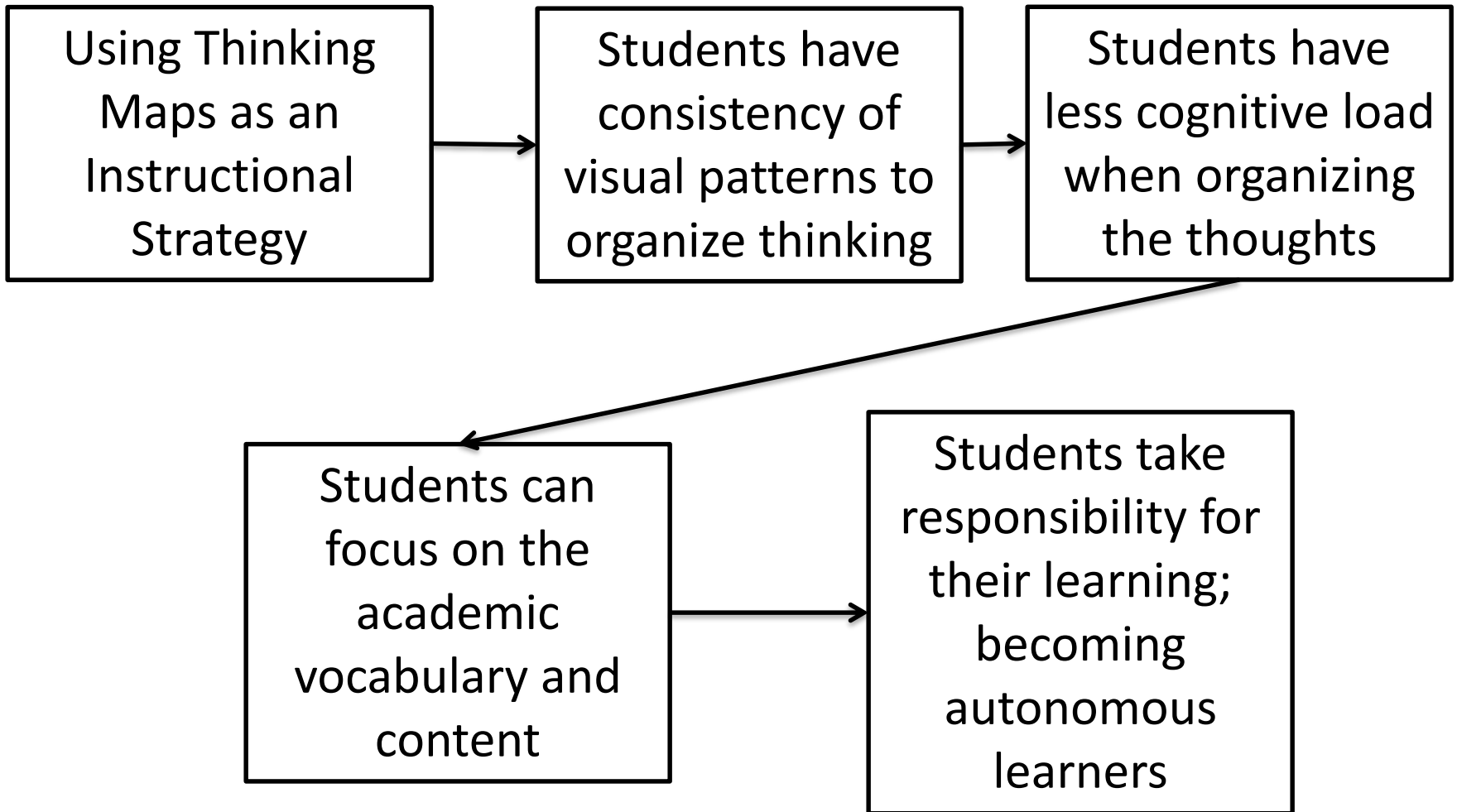
**Thinking
Maps**

Product

Process



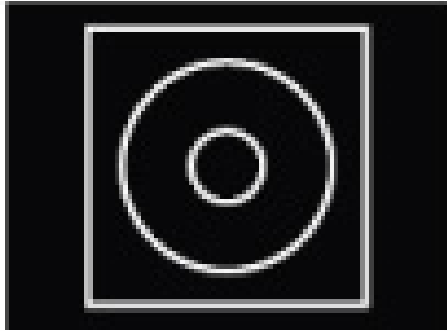
Building Autonomous Learners



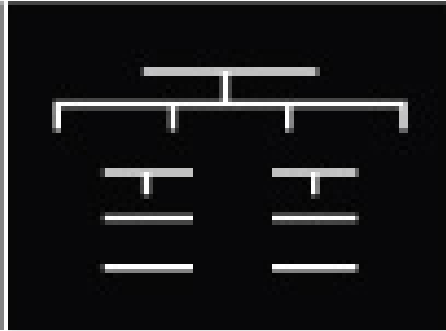
OVERVIEW OF THINKING MAPS

8 Thinking Maps

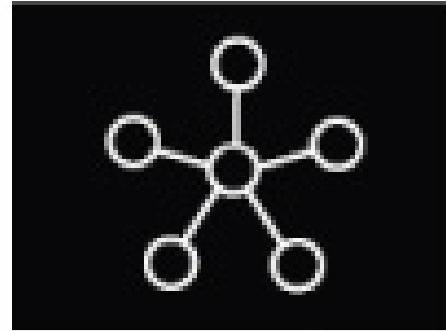
Circle



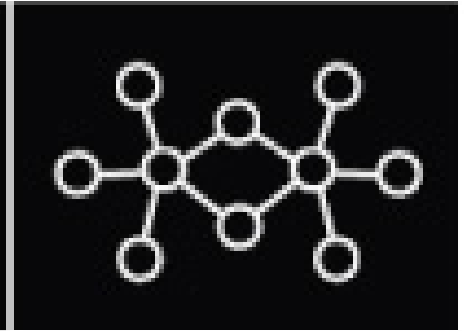
Tree



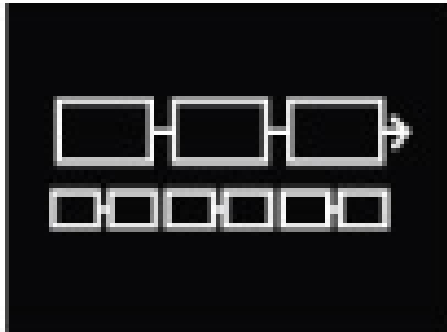
Bubble



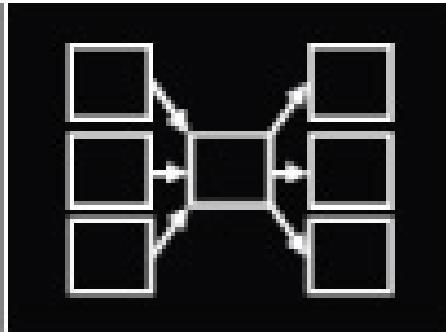
Double Bubble



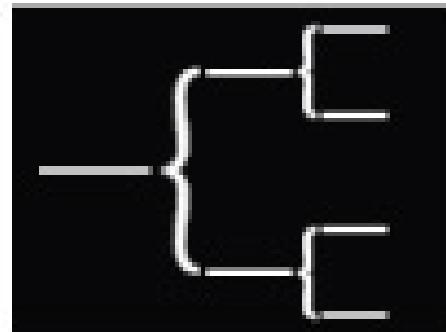
Flow



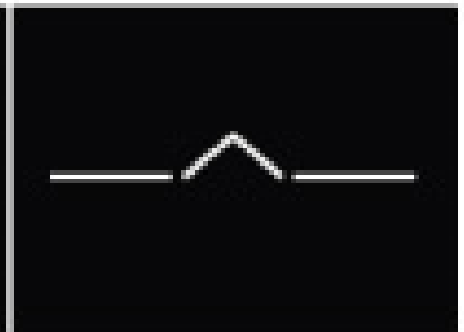
Multi Flow



Brace



Bridge



8
Thinking
Maps

Circle Map – Brainstorming or Defining a Context

Bubble Map – Describing

Double Bubble Map – Comparing & Contrasting

Tree Map – Classifying & Sorting

Brace Map – Analyzing Whole-Part Relationships

Flow Map – Sequencing

Multi Flow Map – Analyzing Cause & Effect Relationships

Bridge Map – Seeing Analogies

Encouraging success

Temporary

Providing the “just right, right now” support

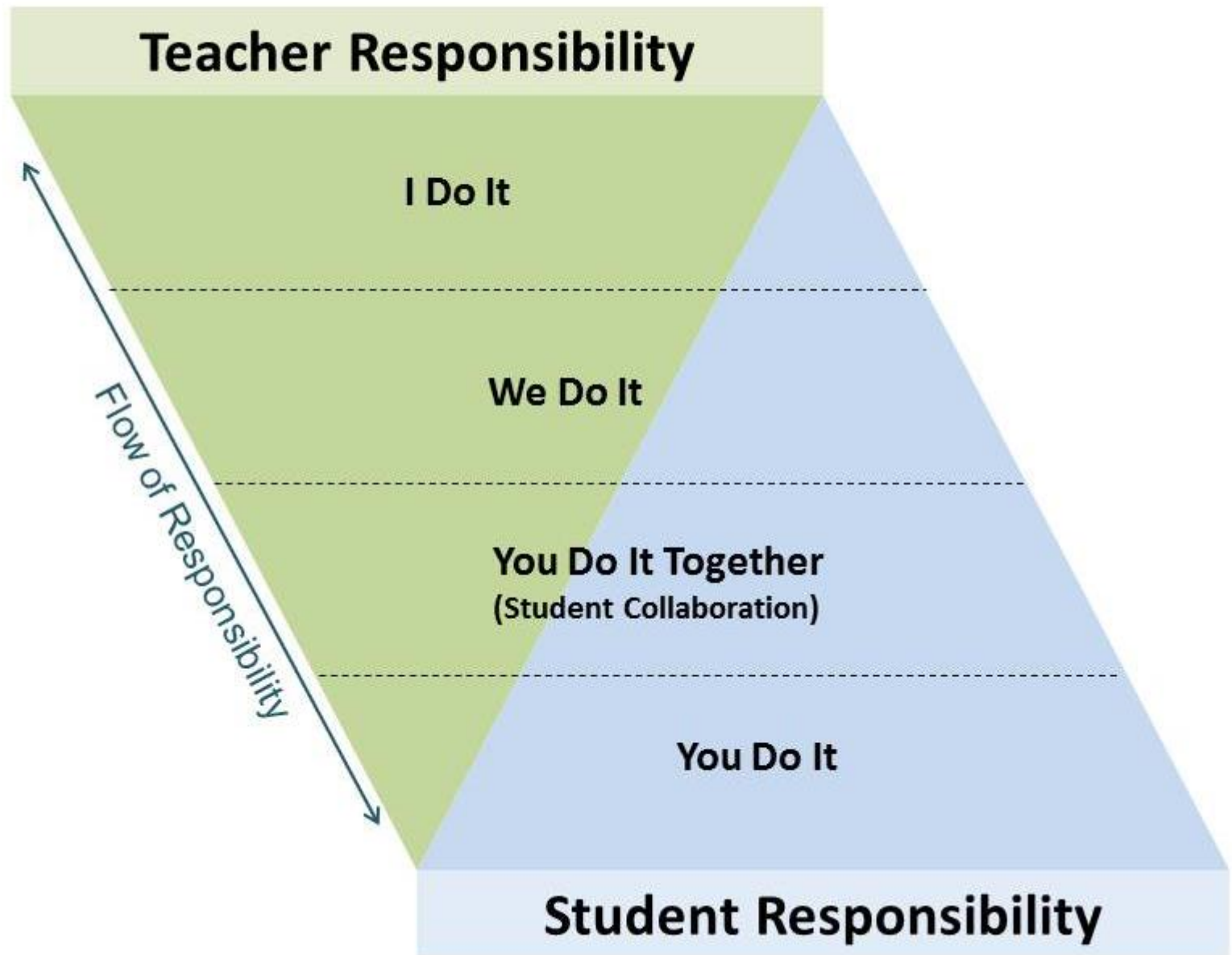


Involves withdrawing support as the student's skills develop

Involves monitoring the learning process

Enables the student to complete a task

Gradual Release Model of Instruction



**APPLY THINKING MAPS TO YOUR
PRACTICE**

Rocks breaking down

Grand Canyon

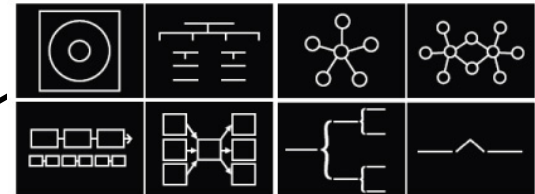


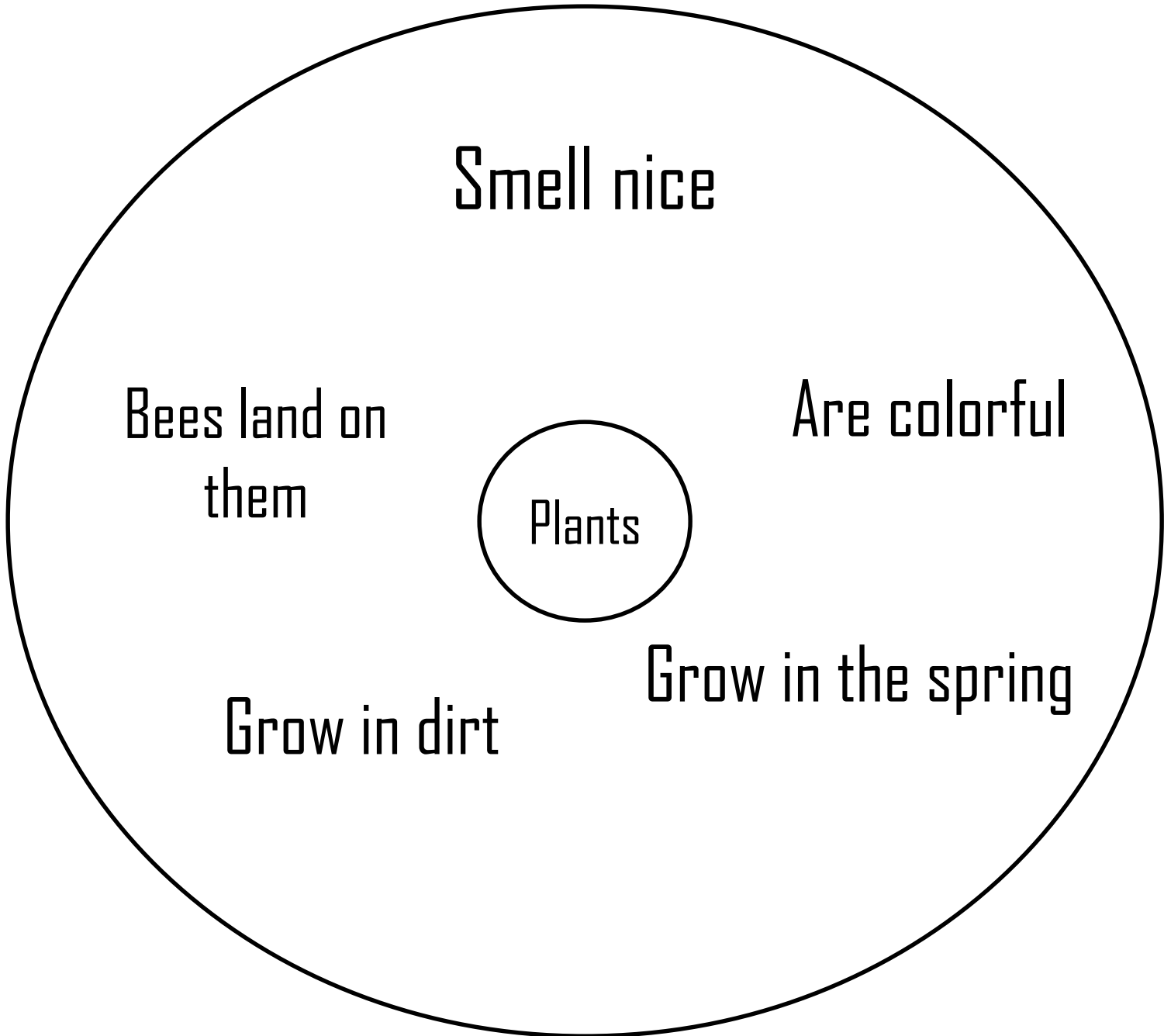
Erosion

Because of water

Glaciers, rain,
snow

Changes rocks





Smell nice

Are colorful

Plants

Grow in the spring

Grow in dirt

Bees land on
them



Definition

Illustration

A change in
size, shape,
or state of
matter



Same matter
present
before and
after change

**Physical
Change**

**Breaking
a glass**

New materials
are NOT
formed

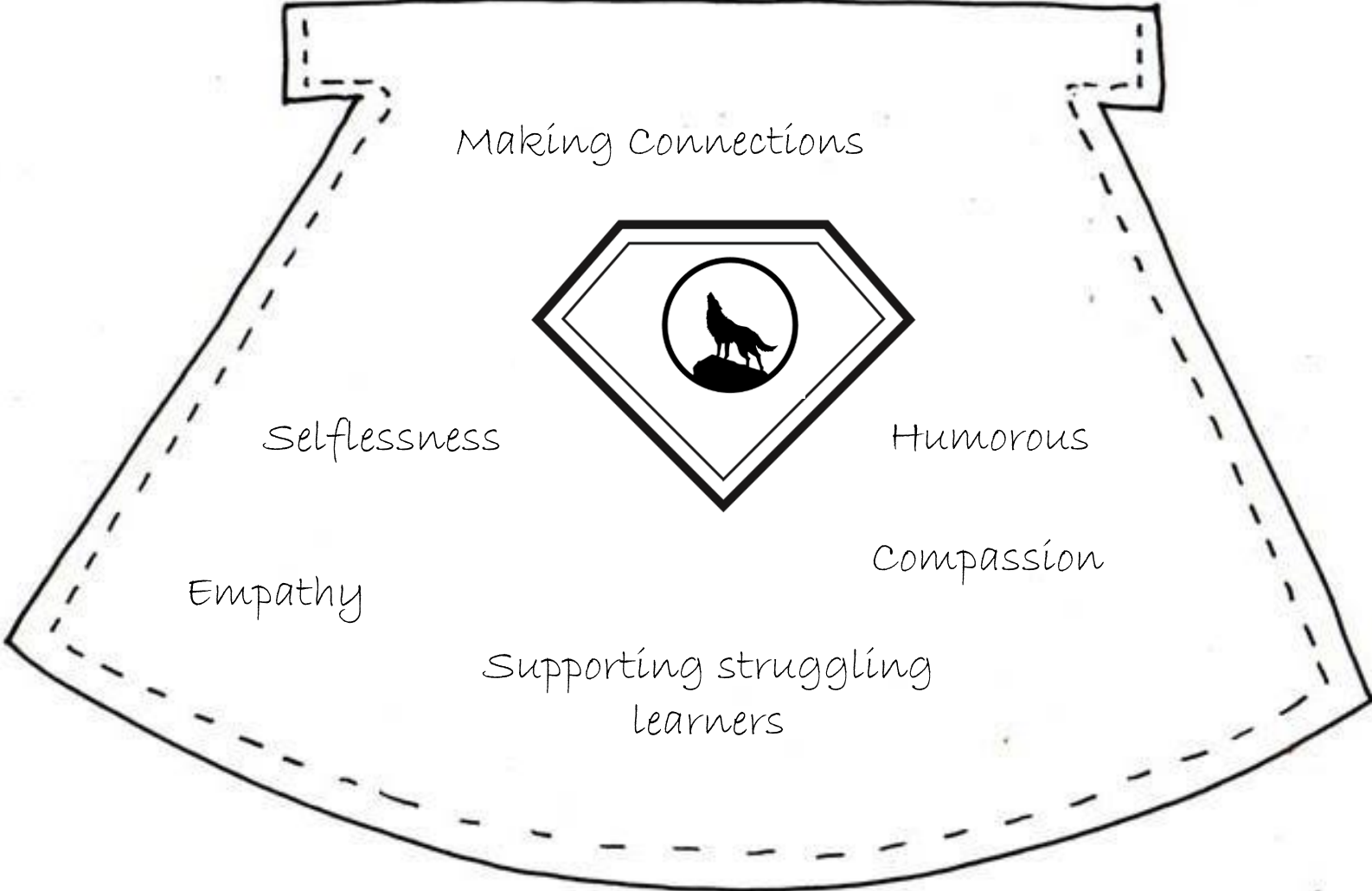
**Cutting
hair**

Characteristics

Examples



On other teachers' capes, write Super Teacher Powers you see in them!





down
11



friendly

excited

Loving

Kind

calm and
welcoming

passion

FOXY!

smiling



cool love!

Teamate!

energy

caring

sweet

patient

calm

remarkable

compassionate



Leader!

thoughtful

helpful

patient

Peaceful

Robin

calm

tech-savvy

kind

supportive

Warm Spirited

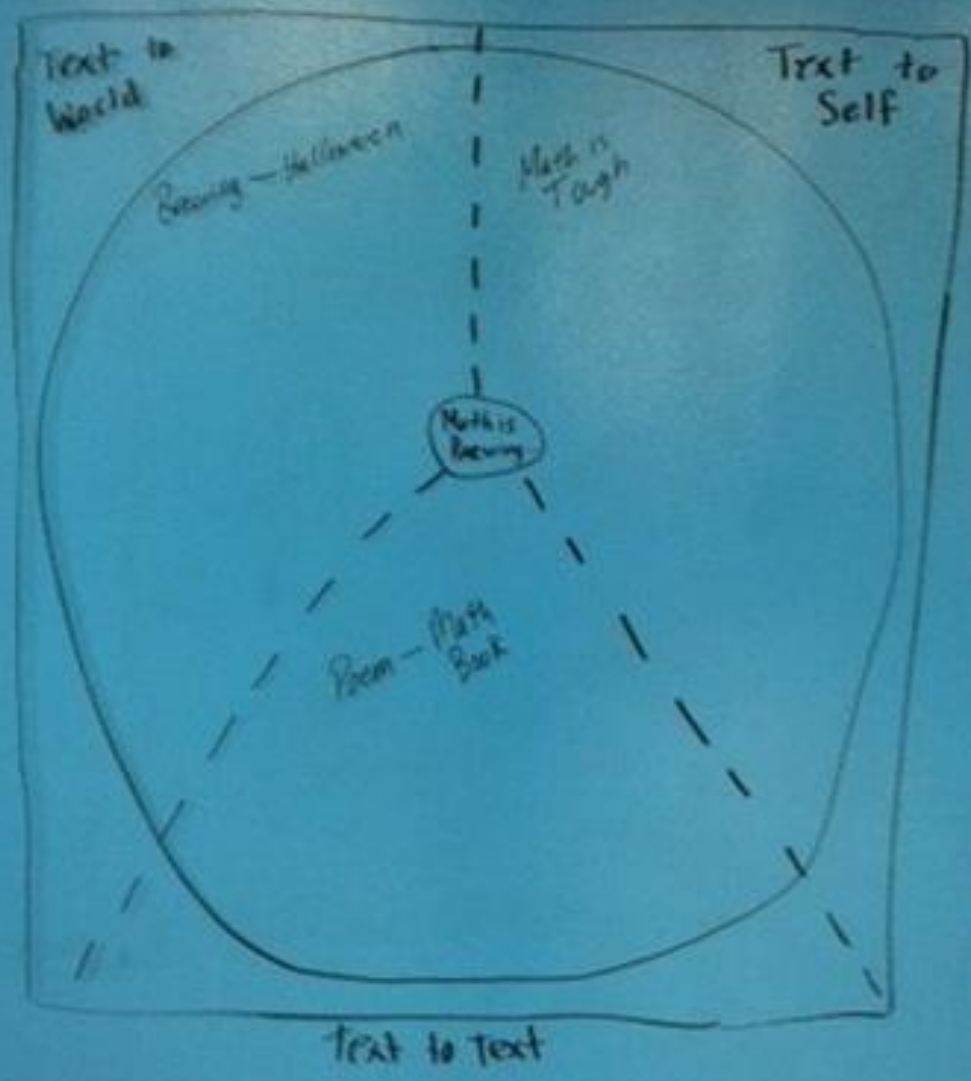
creative

passionate

caring

Kind

Tell me all your connections you made to this poem.

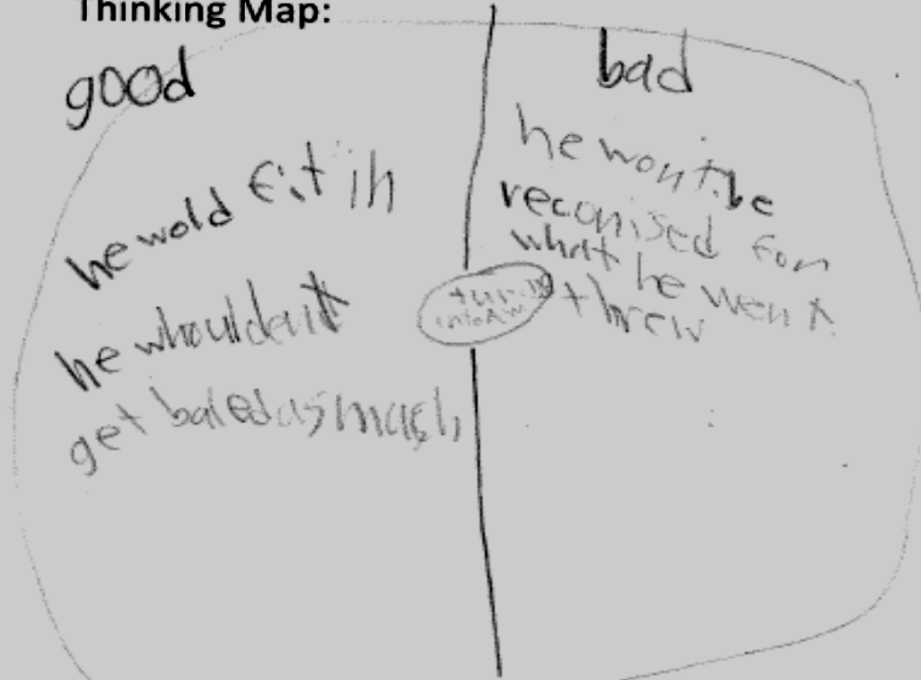


I made several connections -
Witch is Brewing
Witches brew

Read Aloud Journal

Question: IS being 'an American'
boy 'a good thing or a 'not good thing'
for Ke K?

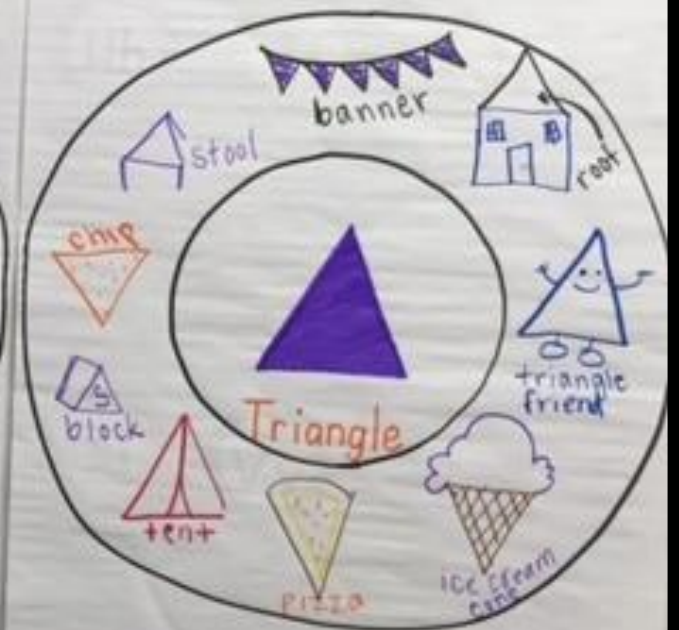
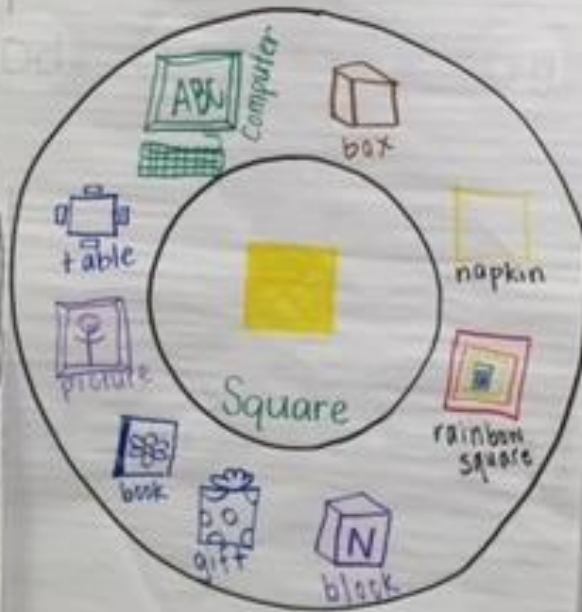
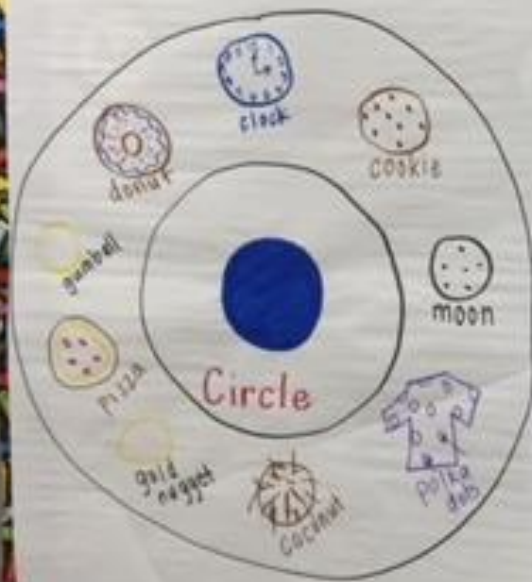
Thinking Map:



Your Answer: It is a good thing and
a bad thing because bad thing would
be he won't be recognised for what he
went through the good things are
he would fit in and he wouldn't get
bored as much.

Guess The Main Idea





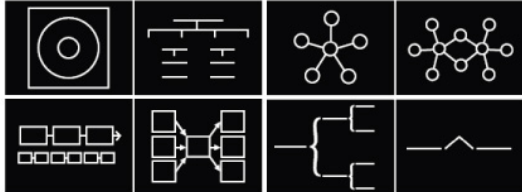
Beautiful

Soft

Flowers

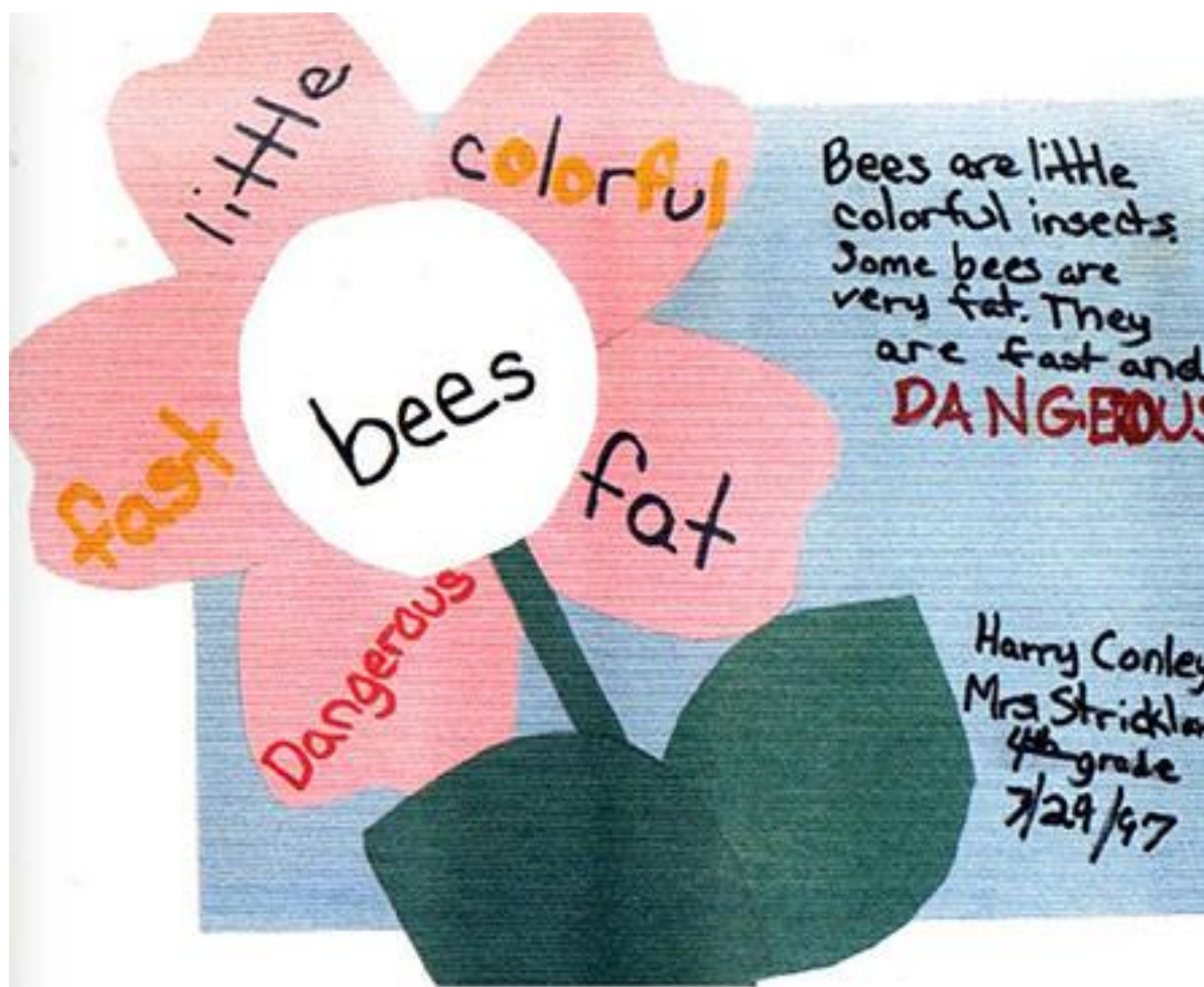
Aromatic

Bright



Bubble map
character





little

colorful

fast

bees

fat

Dangerous

Bees are little
colorful insects.
Some bees are
very fat. They
are fast and
DANGEROUS!

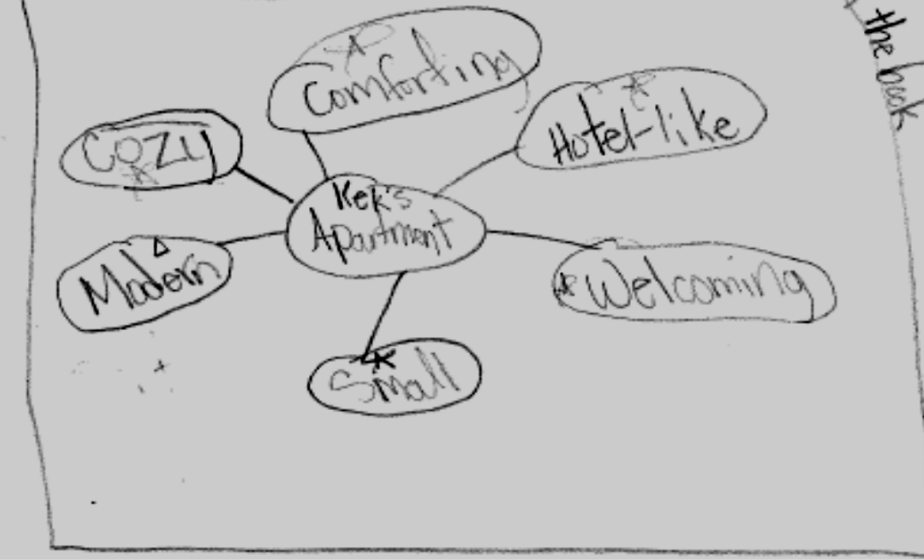
Harry Conley
Mrs Strickland
4th grade
7/29/97



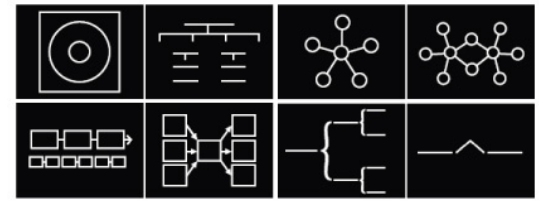
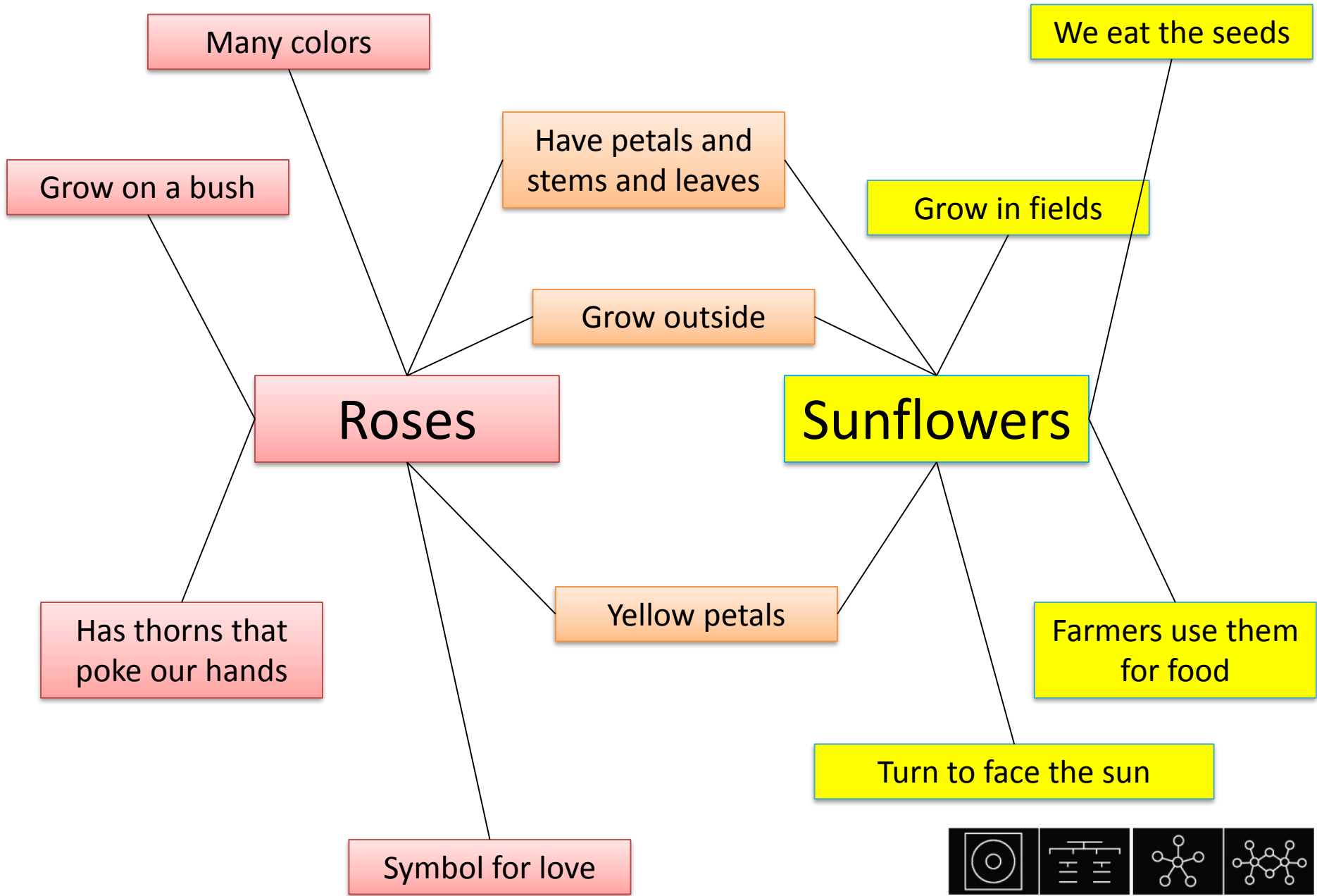
Read Aloud Journal

Question: Visualize one location from today.
Develop a list of adjectives that describe this setting.

Thinking Map: Code - * = My head Δ = From the book



Your Answer: I think Kek's apartment
was very small and cozy. I also thought
that the apartment was very welcoming
and modern because of the appliances
such as the gas stove, heater, etc.

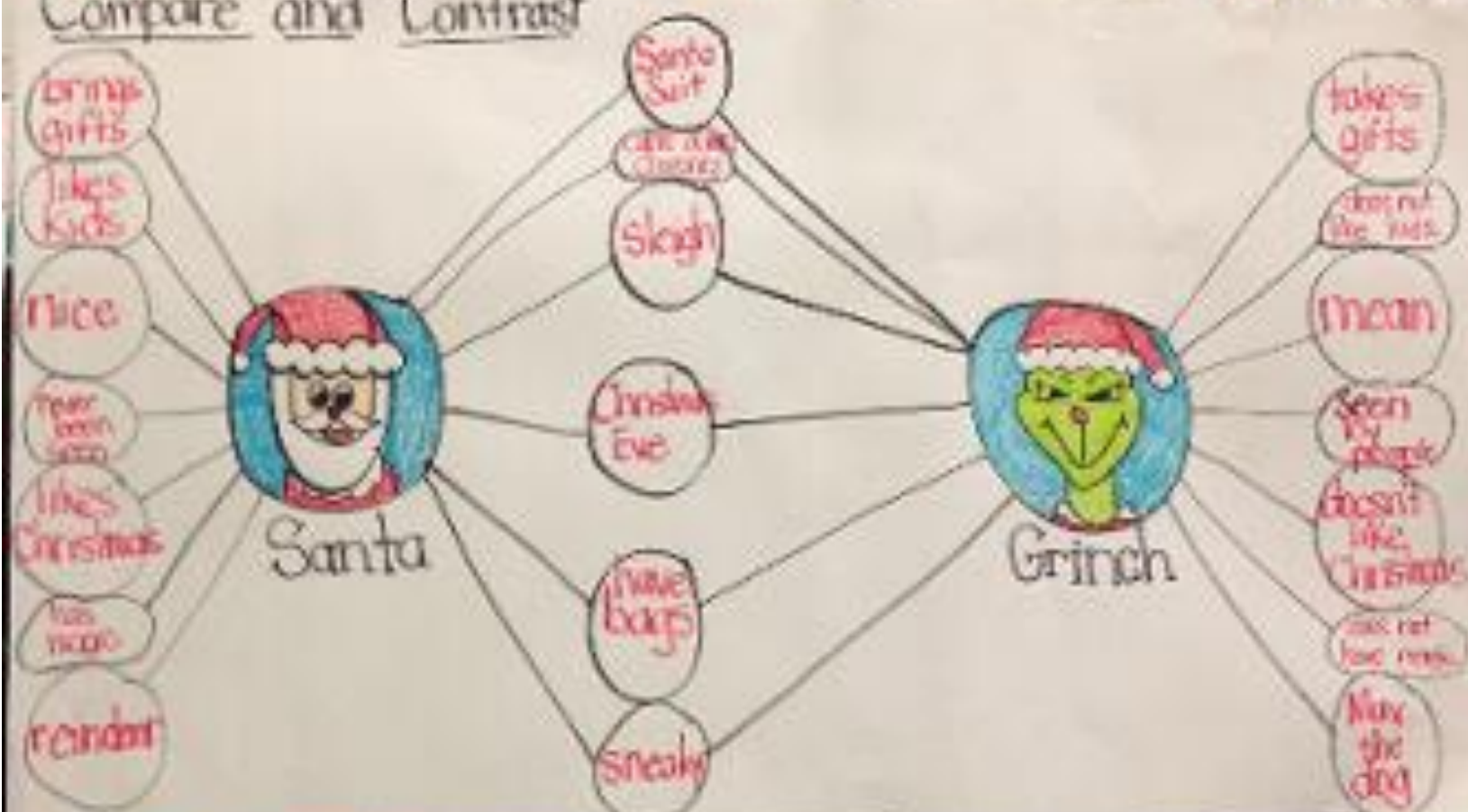


I CAN EXPAND MY THINKING
ABOUT A TOPIC.

I CAN MAKE EVERYDAY
PROBLEMS IN DIFFERENT WAYS.

I CAN

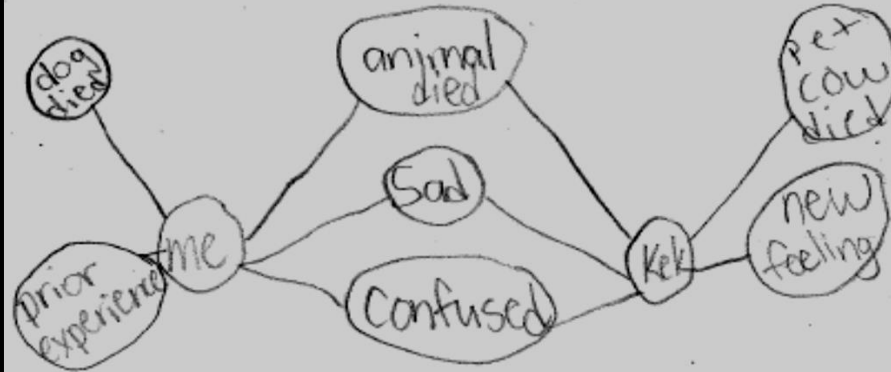
Compare and Contrast



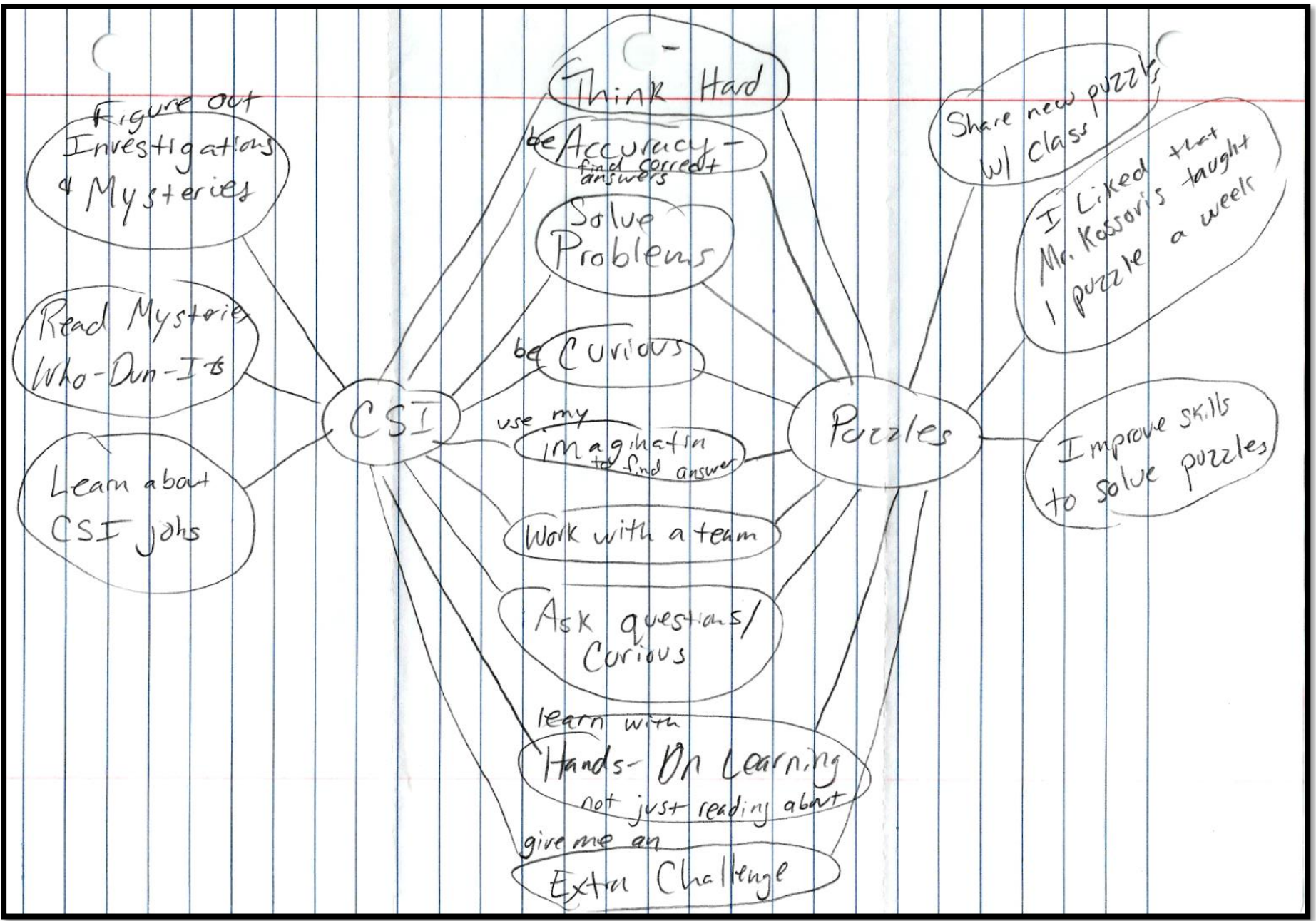
Read Aloud Journal

Question: Create a new problem for Kek similar to one you once faced.

Thinking Map: double bubble



Your Answer: A problem Kek would face is he gets a pet cow and then it dies. It would most likely be a new feeling for him, where as I had already experienced it. We both would be sad and confused.



CSI

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

Puzzles

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

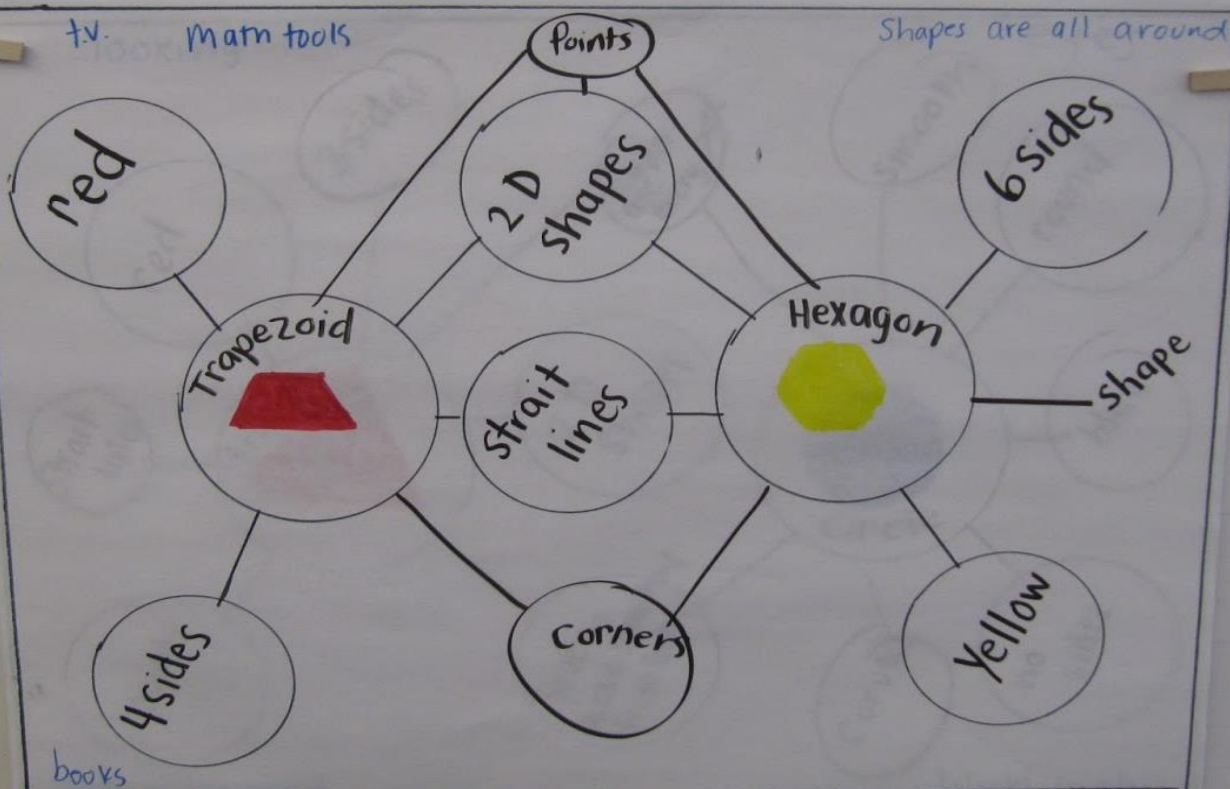
Read Mystories Who-Dun-Its

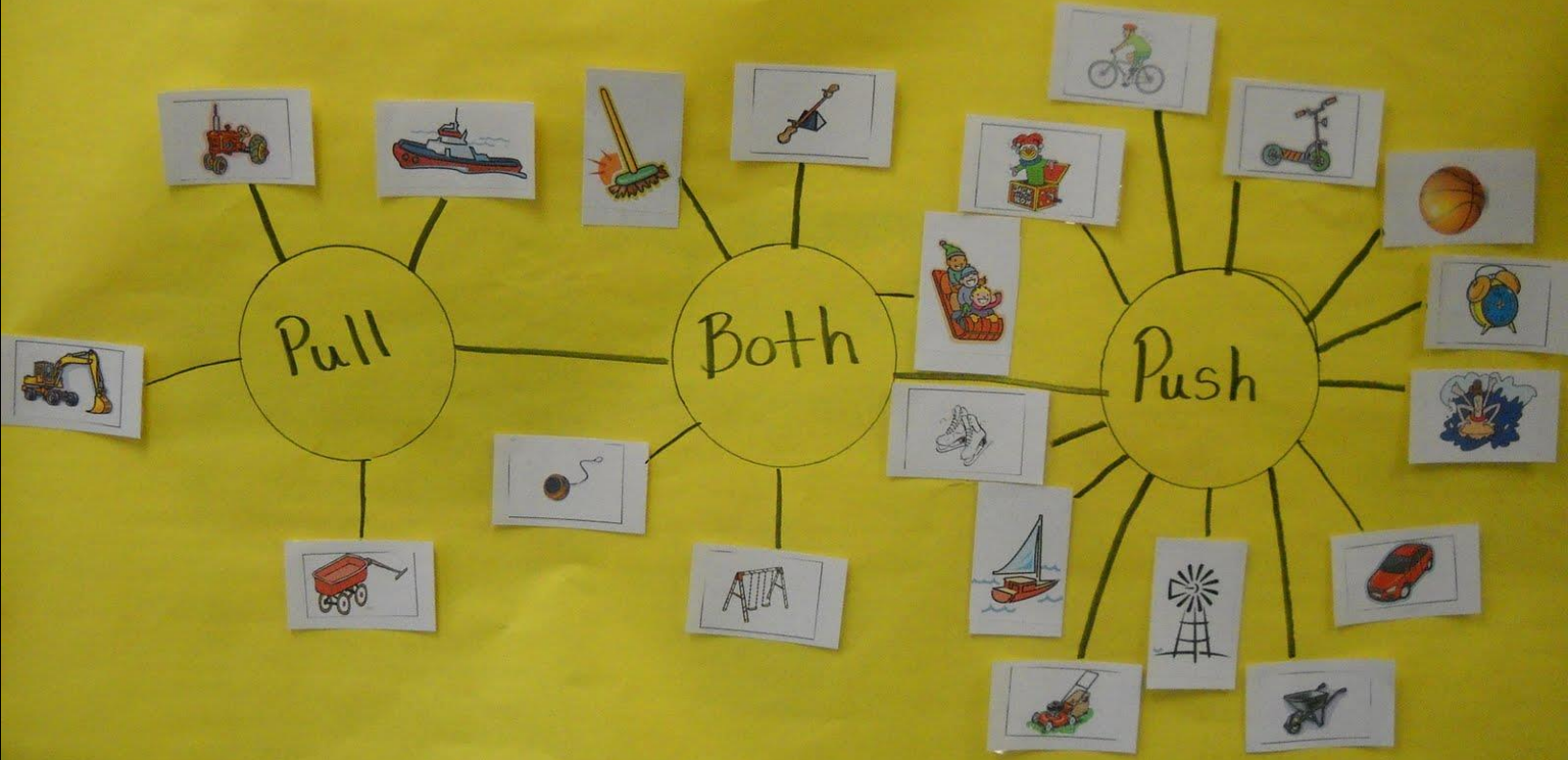
Learn about CSI jobs

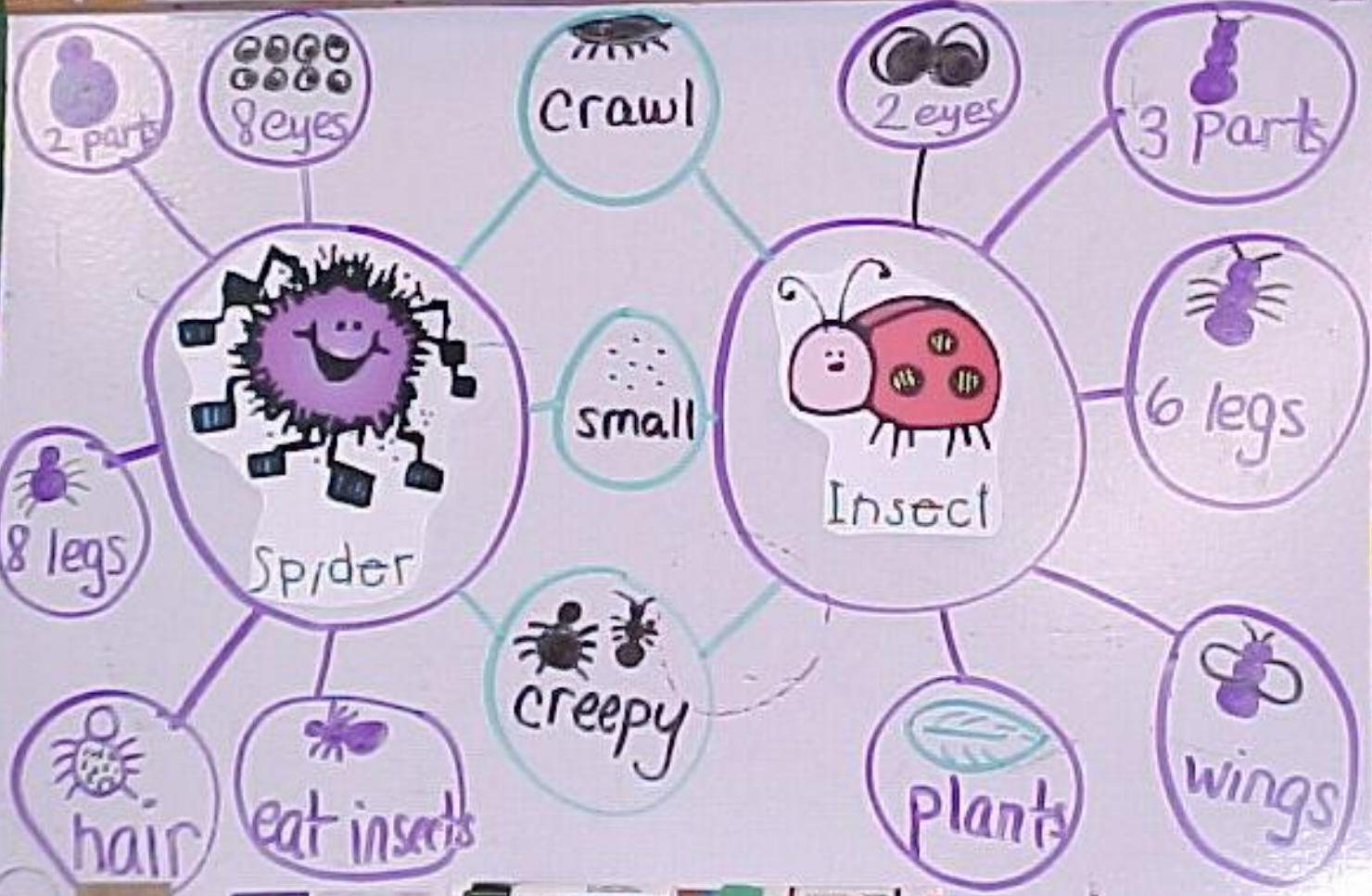
Learning Target



We are learning how shapes are alike and different.







Sheep

Both

Pigs

Males are called rams.
Females are called ewes.
Babies are lambs.

Give us milk, meat and wool.

Have a fluffy tail.

Make a "Baaa" sound.

Give us meat.
Live on a farm.
Have four legs.
Mammals

Males are called boars.
Females are called sows.
Pigs are omnivores.

Have a curly tail.

Roll in the mud to keep cool.

Makes an "oink oink" sound.

Flip the word cards

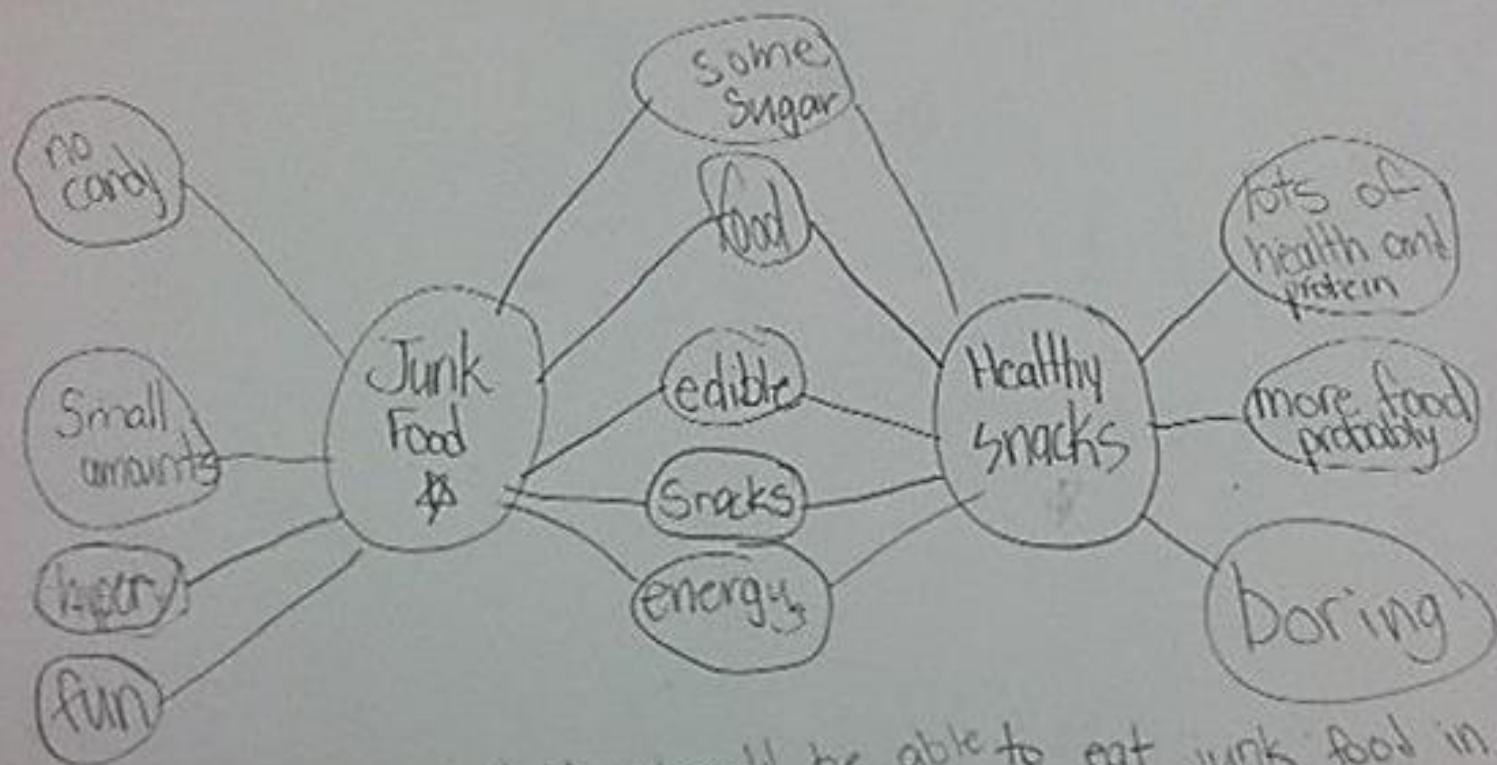
-Try the other word card if it doesn't sound right!

Skippy Frog

Developmental & Learning Center



Should Students be able to eat junk food in school?







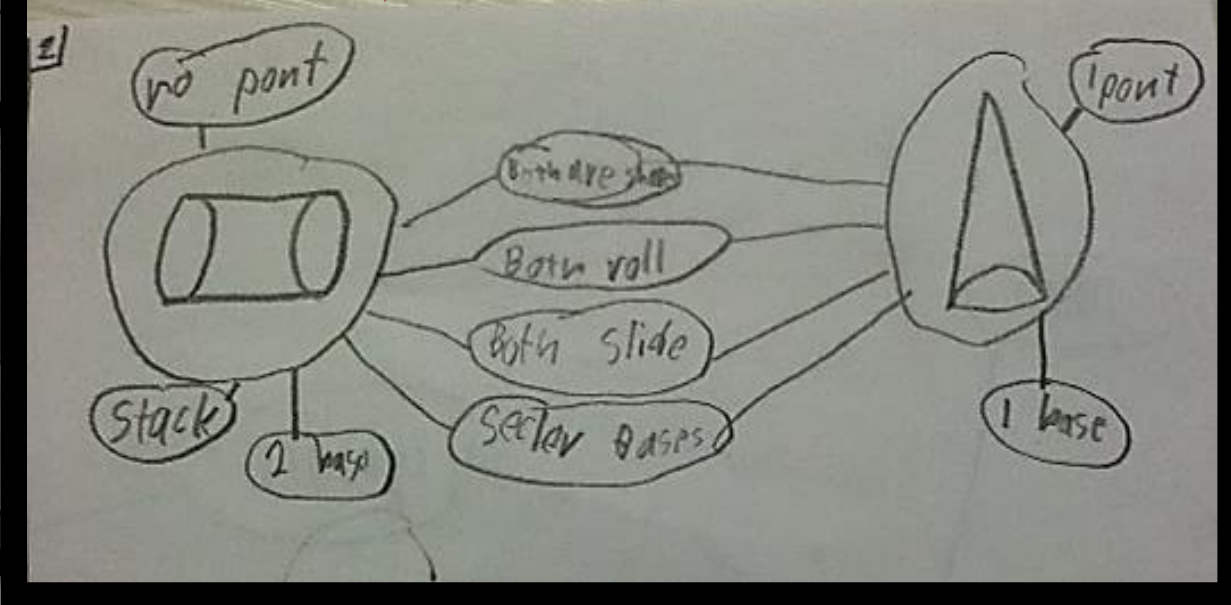
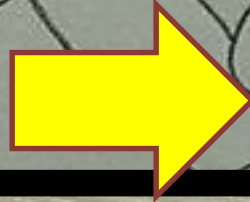
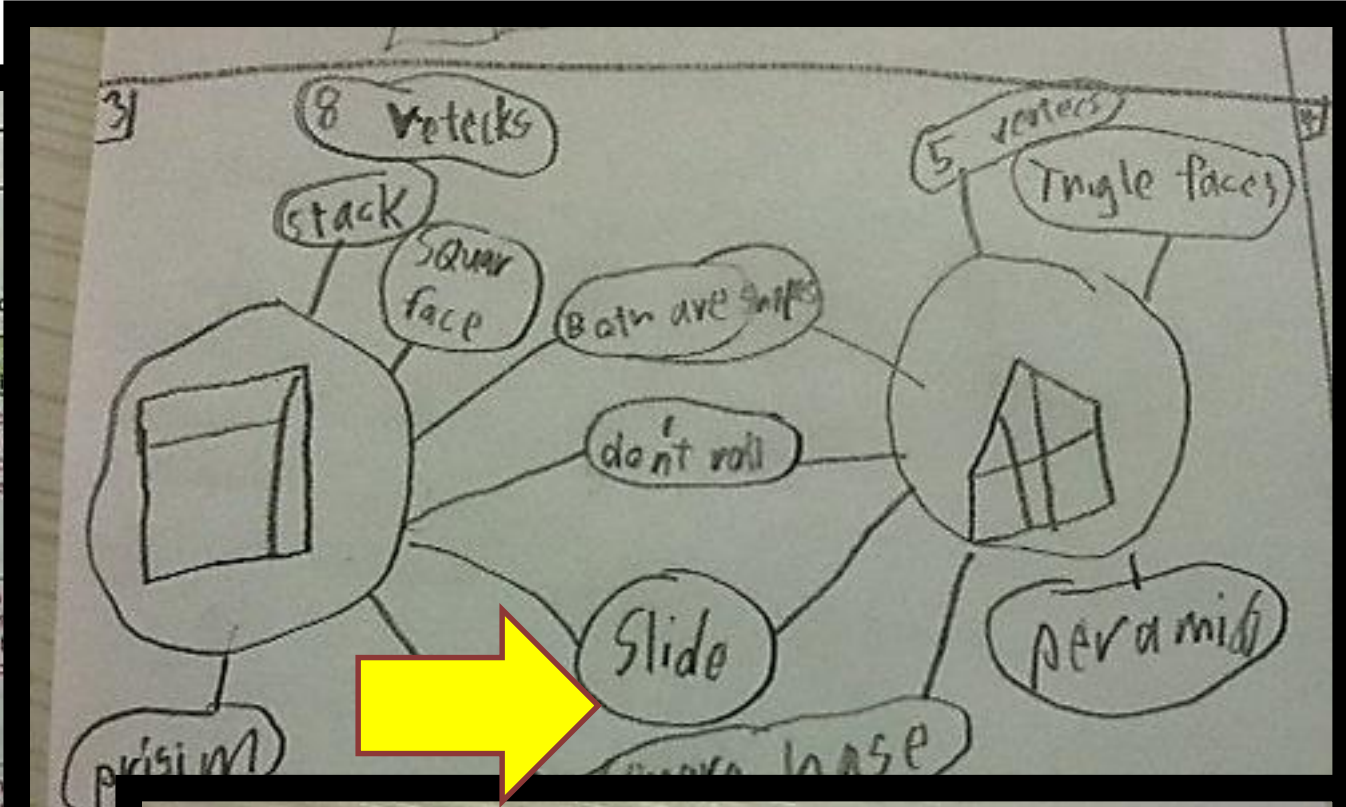
I believe students should be able to eat junk food in small amounts, however there shouldn't be any candy. It should also be in small amounts. I do believe in both though!

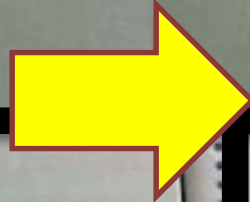
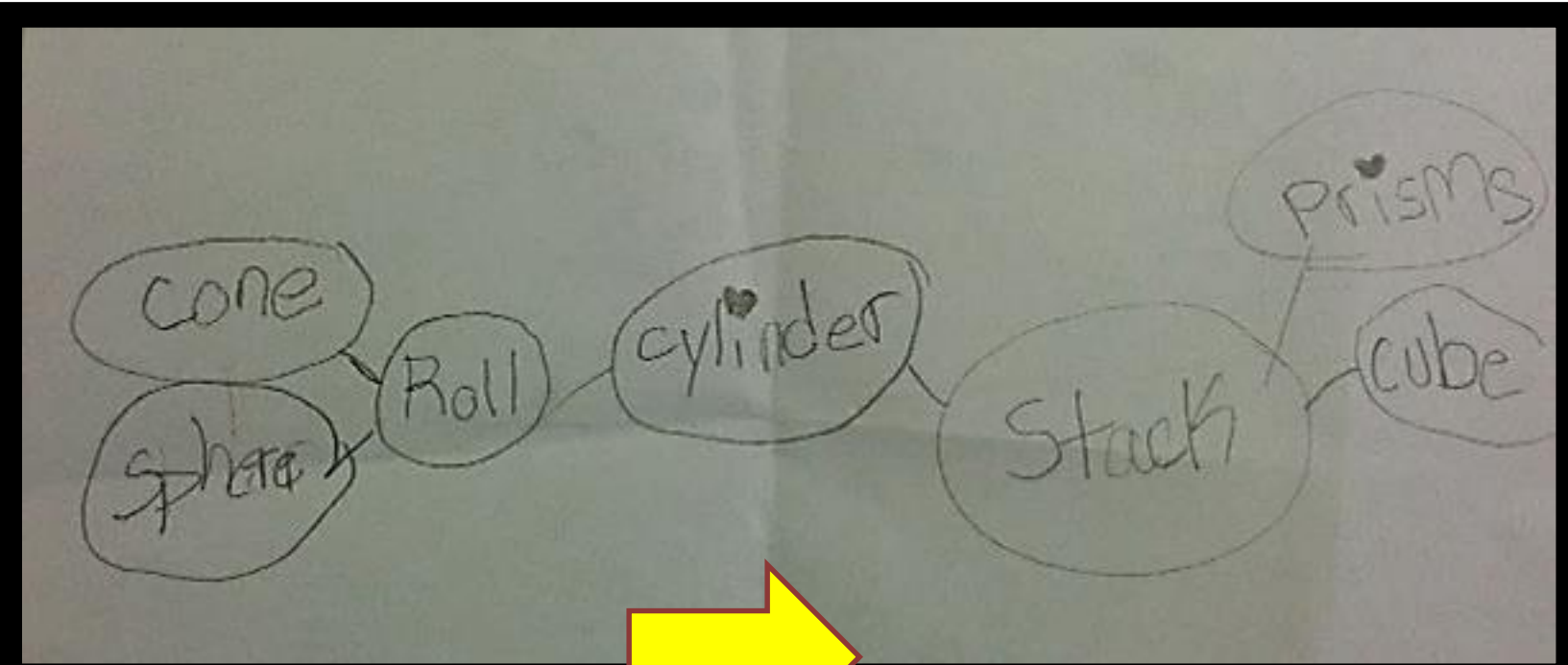
Natal

► Alike and Different

Describe how each pair of shapes is alike and different.

Shapes	How these are alike
9. 	They both stack, slide, they are three-dimensional, they both have flat faces.
10. 	They are both three-dimensional, they both roll, and they both have a curved surface.
11. 	They are both three-dimensional, they both slide, and all faces are flat.
12. 	They are both three-dimensional, they both slide and roll, and they both have a curved surface.





pyramid		✓	
cone		✓	✓
cylinder	✓	✓	✓
rectangular prism	✓	✓	
sphere			✓

Types of Flowers

Grow on Trees

Orange Blossoms

Crab Apple Blossoms

Dogwood

Grow on Bushes

Roses

Hydrangea

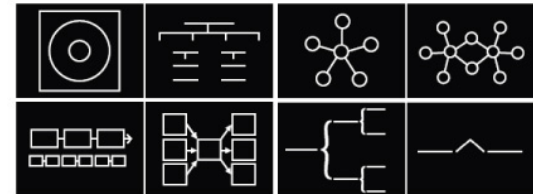
Lilac

Grow on the Ground

Lily

Sunflower

Dandelions



Our Feelings



Happy



Sad



Angry



Scared



Tired



SURPRISED



Nouns
Nouns

Ar
Anir

Nouns

Anir Animals

People

Things

Places



How we go home

CAR



BUS



Biker/Walker



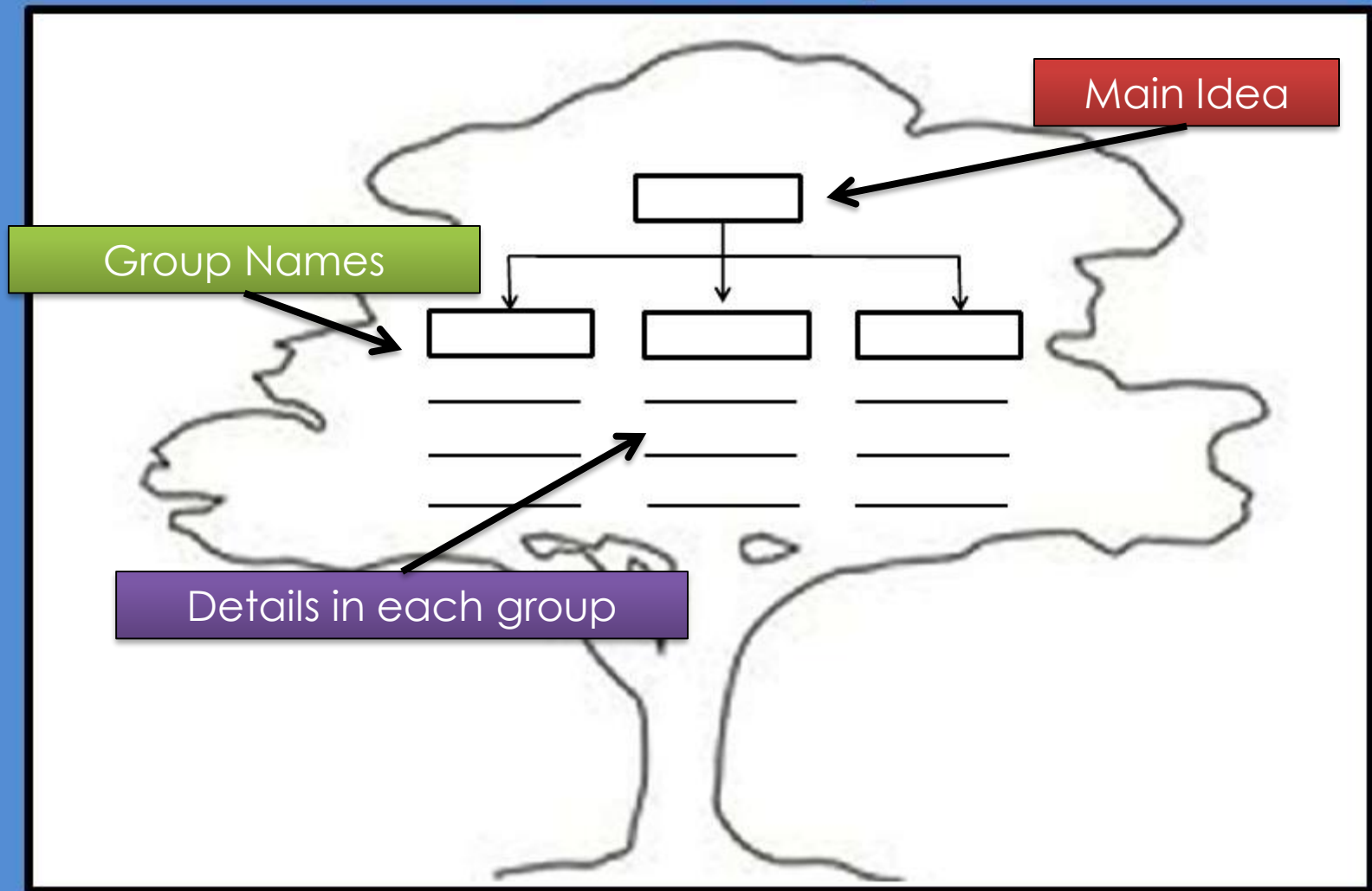
Sunset



Other



Tree Map



Classifying
(Grouping and Sorting)

Words Families

Green Eggs and Ham



Sam
am
ham
↓
ram
mam
bam
cram
jam

One Fish, Two Fish
Red Fish, Blue Fish



red
↓
bed
led
sled
Ed
med
ked
fed

Hop on Pop



hop
pop
↓
top
stop
lop
mop
shop
chop

The Cat in the Hat



Cat
hat
↓
bat
mat
fat
that
pat
chat
rat
gnat
sat



My 5 Senses

see 

dog



shadow




city



Yourself



smell 

popcorn



flowers




garbage



horses



taste 

Watermelon



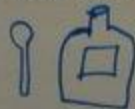
Ocean



ice cream



medicine



red

la silla

Seasons

Fall



Winter


Spring



Summer



 September



 December

 March 



June 

 October 



 January 


 April 

July

 November 

February

 May 

August 

CATS.

Look



Live



Eat



Facts





Firefighters

can



• spray a hose



• listen for an alarm

are

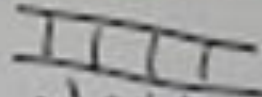


• heroes



• strong

have



• ladders



• helmet



• ax

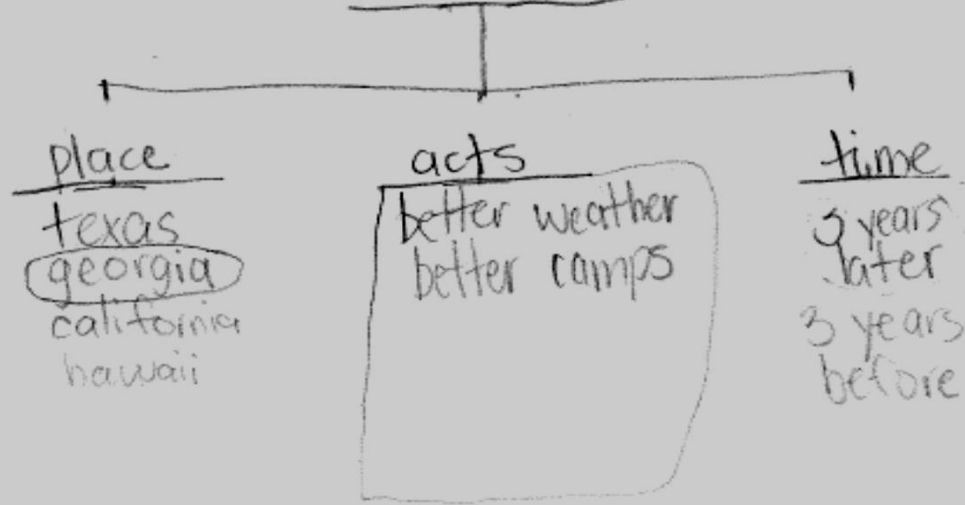


• air tank

Read Aloud Journal

Question: How might Kek act differently if the story were set in a different time or place

Thinking Map: Kek's Behavior

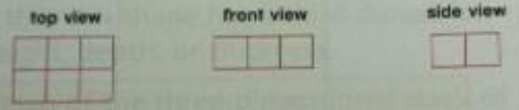


Your Answer: If Kek was sent to georgia, It would be better weather, that would cause him to be reminded of sudan wich might make him think of his mom. Thinking of his mom would make him more emotional.

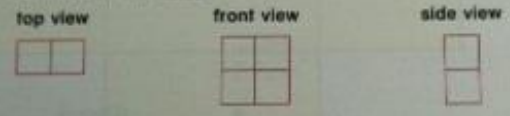
Vocabulary
rectangular prism
views

► **Build and Draw Rectangular Prisms**
Using unit cubes, build a **rectangular prism** to match each description. Draw the rectangular prism from the top, front, and side views.

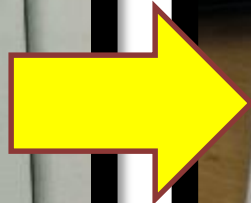
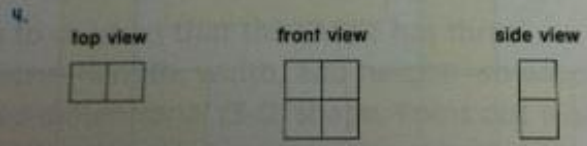
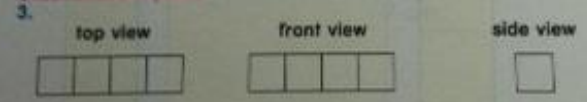
1. two rows of three unit cubes



2. one row of two unit cubes stacked on top of another row of two unit cubes

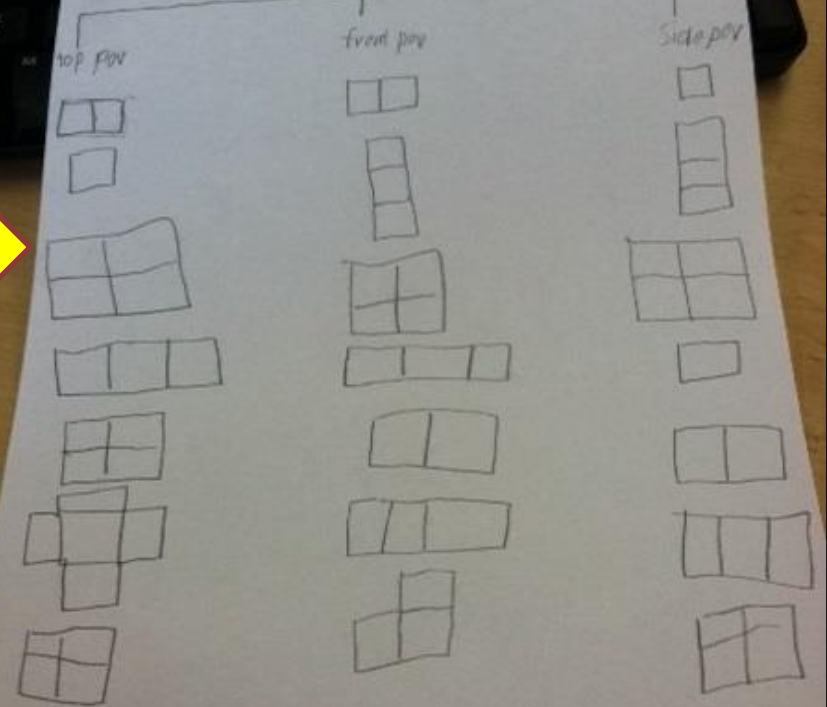


► **Build Rectangular Prisms from Drawings**
Build a rectangular prism to match each set of views.
Check children's prisms.

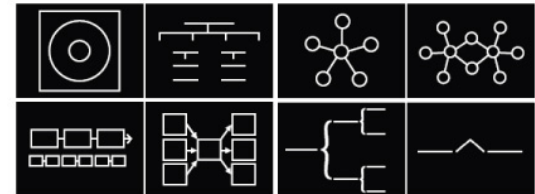
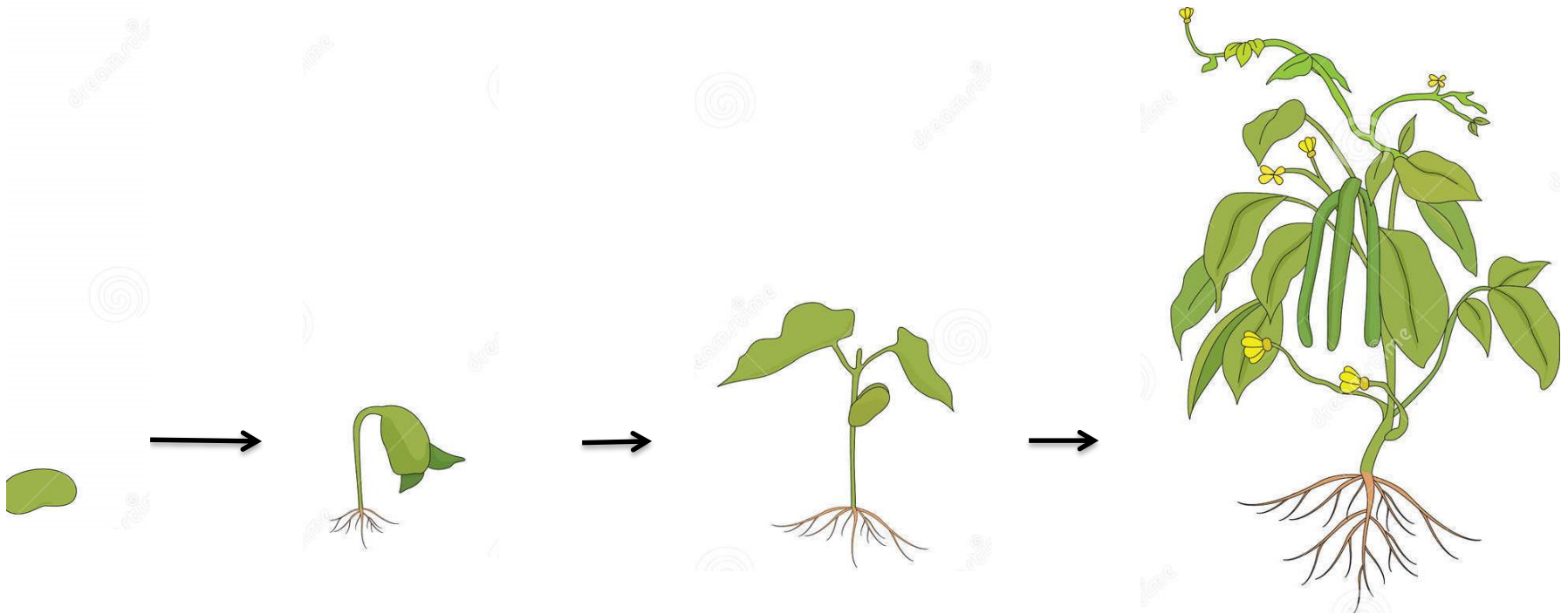


Notes

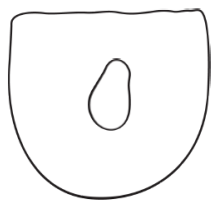
3-D Figure



Plant Growth

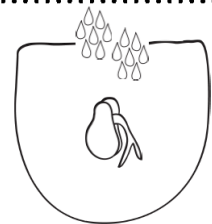


1



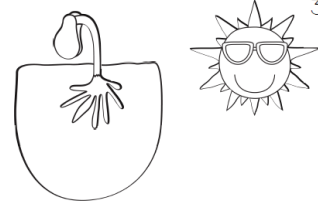
The seed needs soil.

2



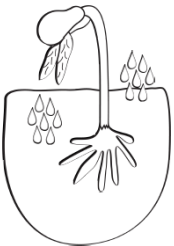
The seed needs water.

3




The seed will sprout.

4



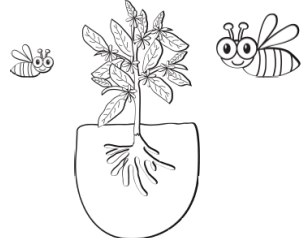
The sprout needs water.

5



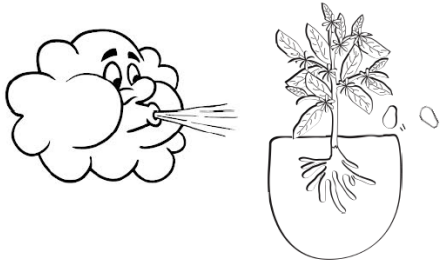
It is a seedling.

6



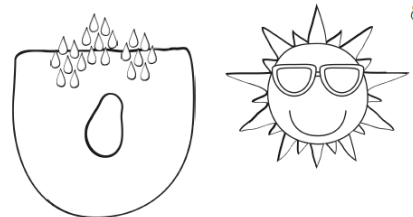
Bees pollinate the plant.

7



The wind blows new seeds.

8



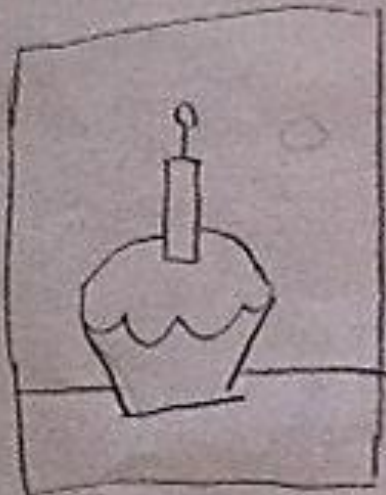
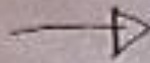
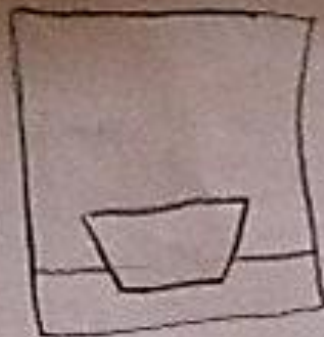
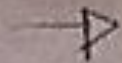
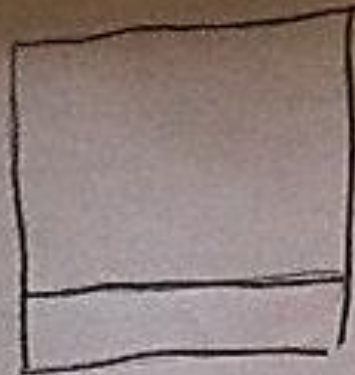
The new seed needs soil, water and sunlight.

Apple Tree Flow Map

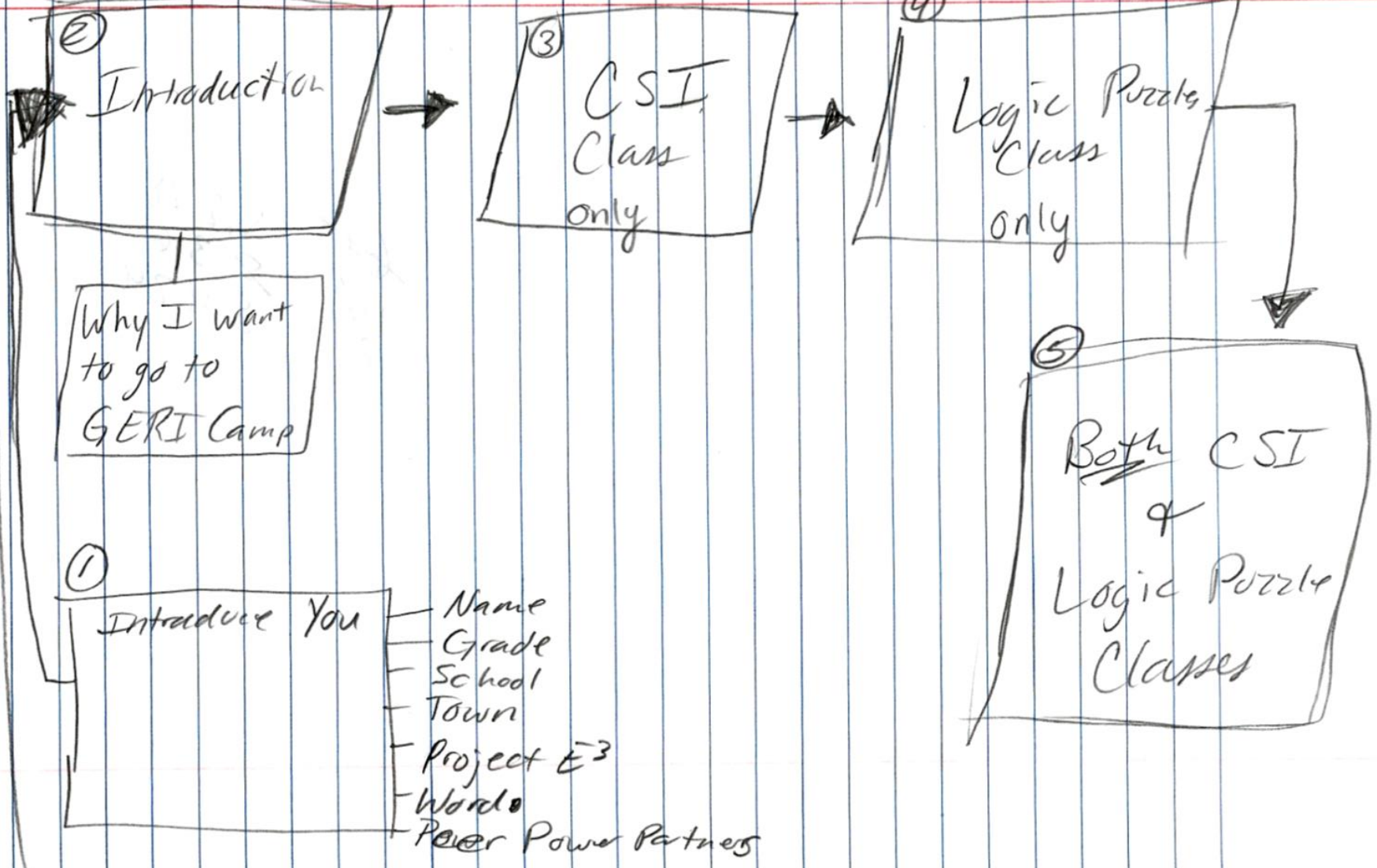


Thanksgiving Story





How will I organize my PowerPoint?

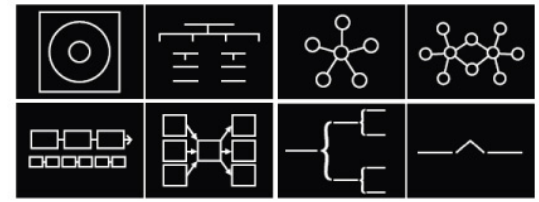
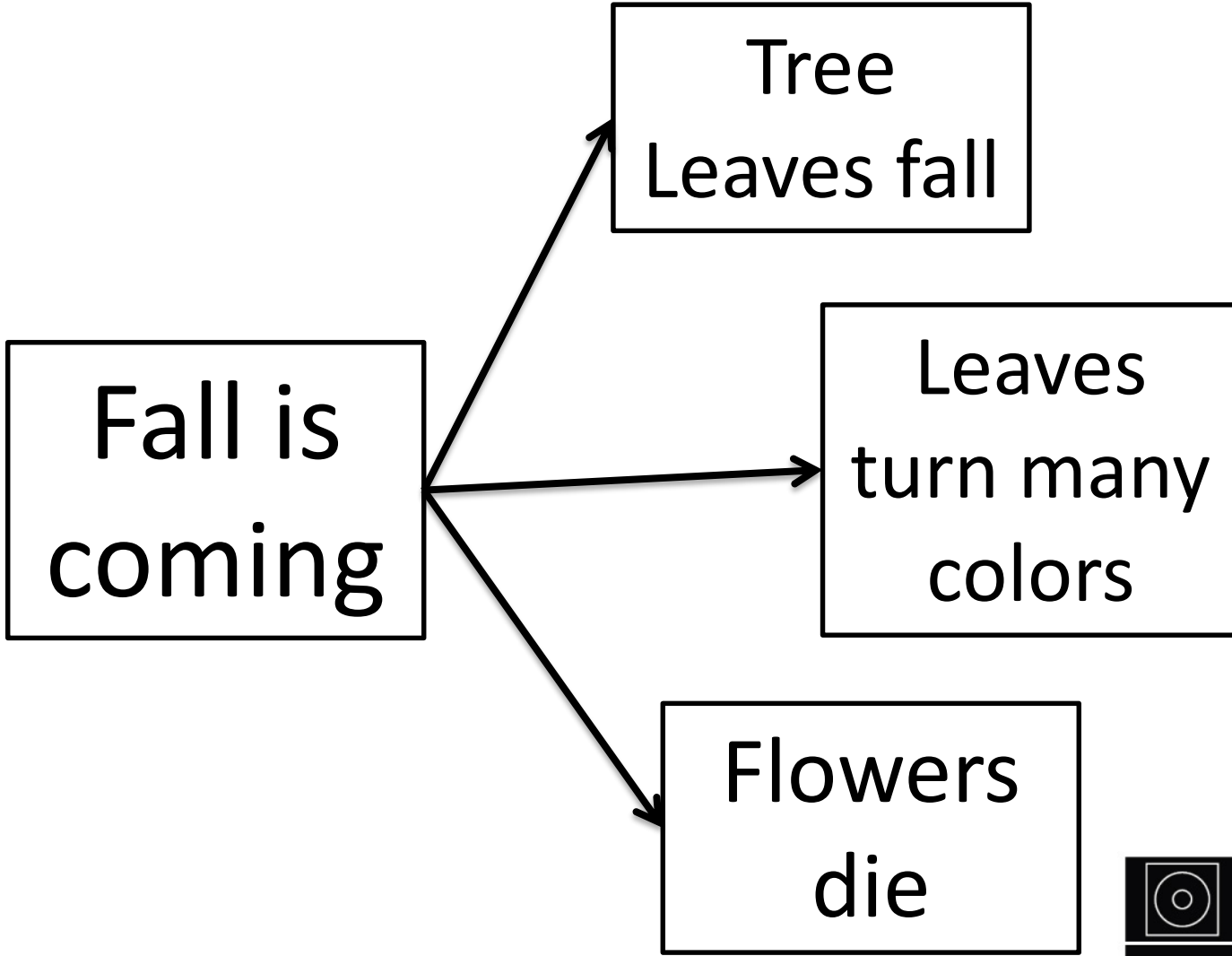




Red in the
cheeks
closed his
eyes
Shook his head

« To proud to speak »

Retell the story
in your words

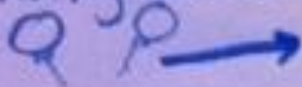


Activities

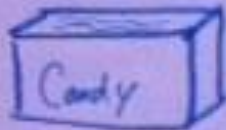
1. Jumping Frogs



2. Bouncing Ballons



3. Candy Box



I'm
Learning
Patience

Help us...

→ Wait

→ Learn

→ Try again

→ Work Hard

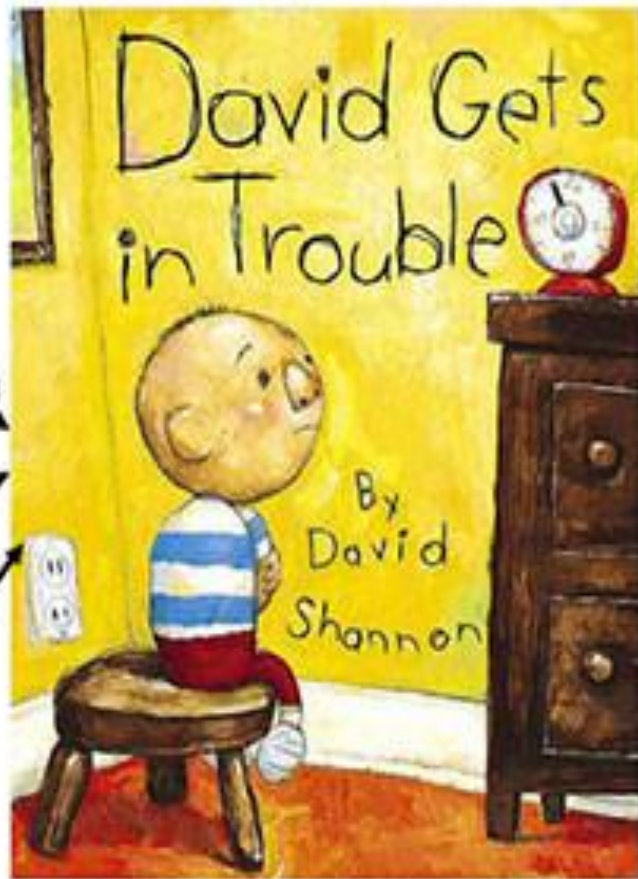
→ Keep trying

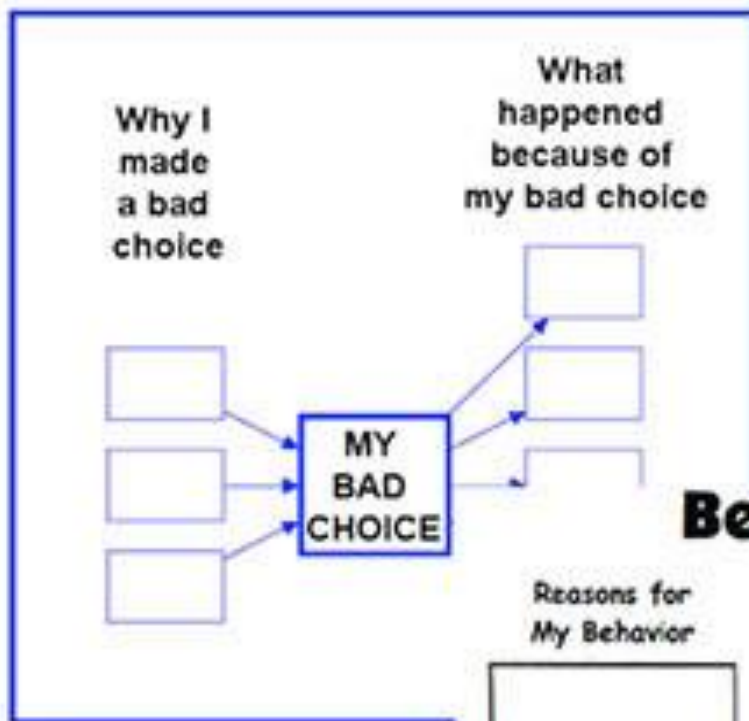
→ Bigger Reward

→ Feels better

→ Keep Calm, Keep Cool

→ Challenges us





Behavior Reflections

Reasons for My Behavior

Name _____

Date _____

Consequences of My Behavior

Description of My Behavior

Chosen Consequence

Plan for Improvement _____

Student _____

Teacher _____

Parent _____

My Actions:

Not being appropriate

Saying weird comments

Talking when I'm not supposed to

Talking loudly

What will happen:

Get in trouble

Sit and wait

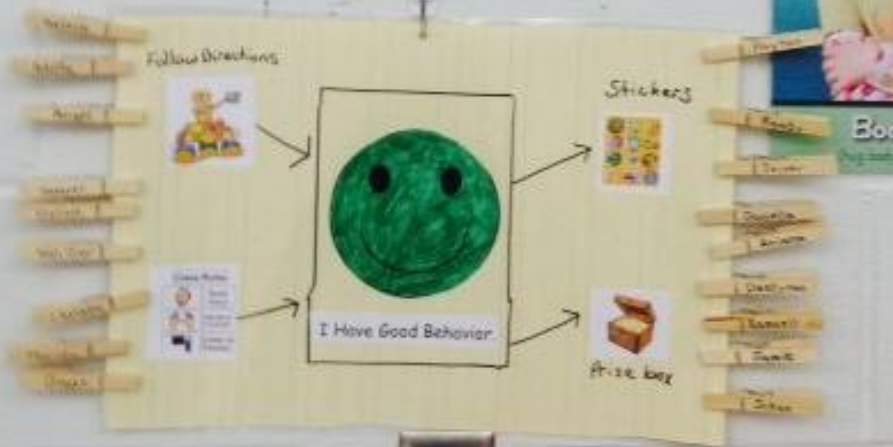
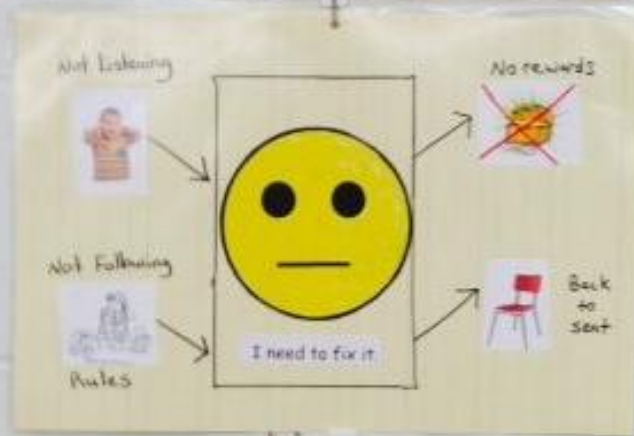
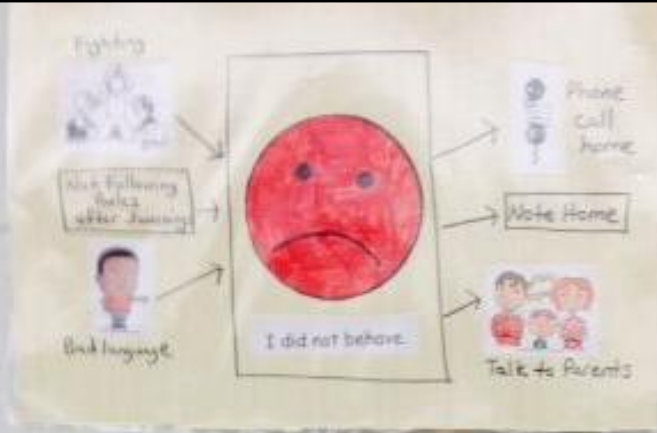
Friends are tired of hearing weird comments

Distracting others

What happened:

Mr. Wolff has to remind Sean to control himself

Sean's Plan: I will stop talking loudly when I'm not supposed to and saying weird comments. I will be appropriate.

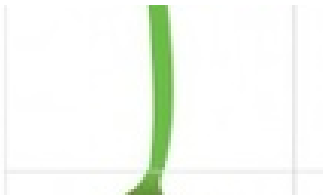


A Flower

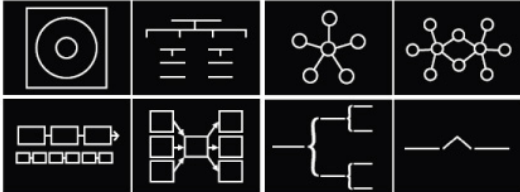


Petals

Pollen



Created by 201





a pumpkin



stem



tendrils



shell

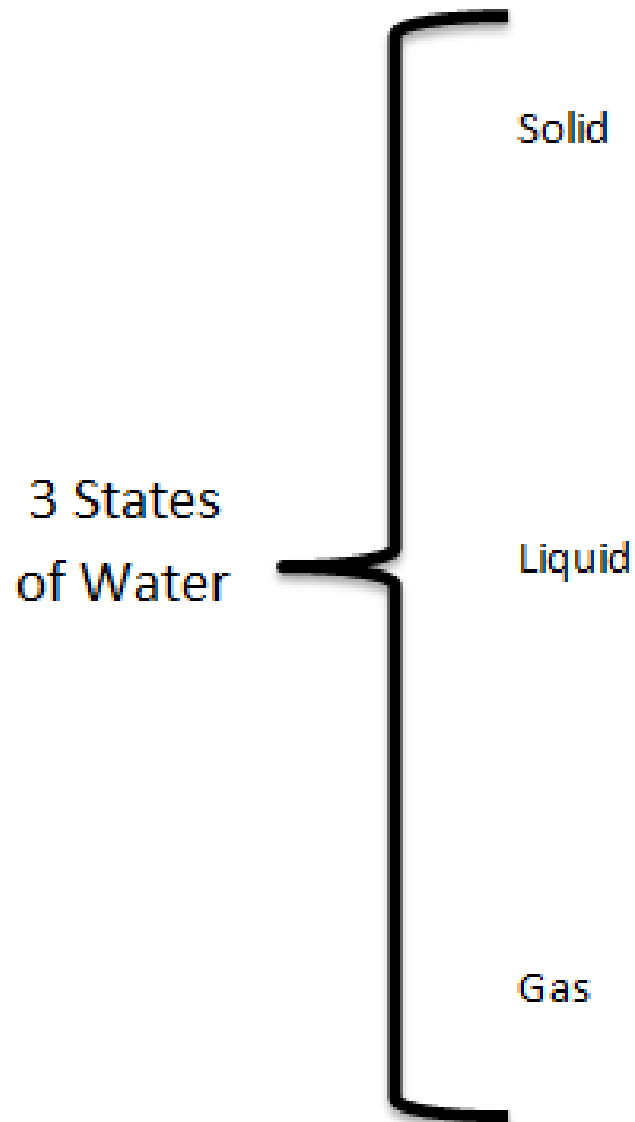
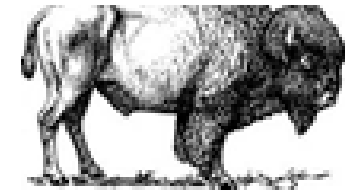


seeds



pulp

1. **Buffalo Station:** States of Water: Write a word used to describe each state of water and draw a picture of each state of water.



04
10

Dimensions

1-D . _____

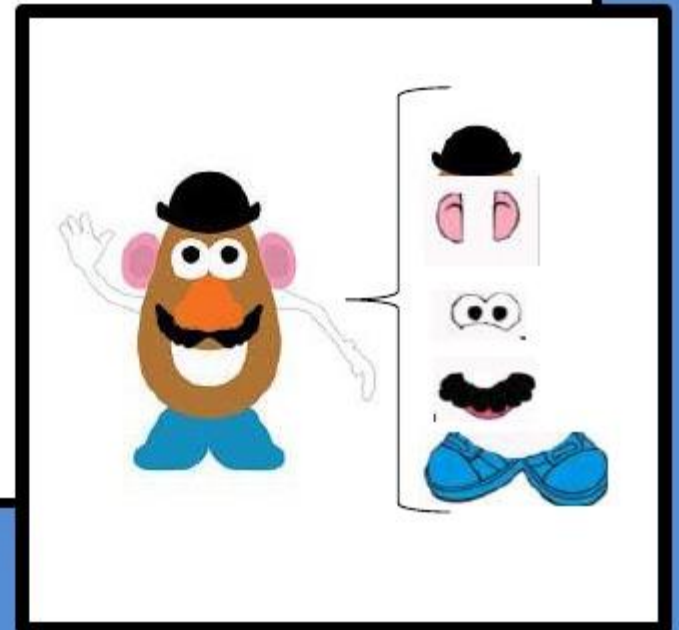
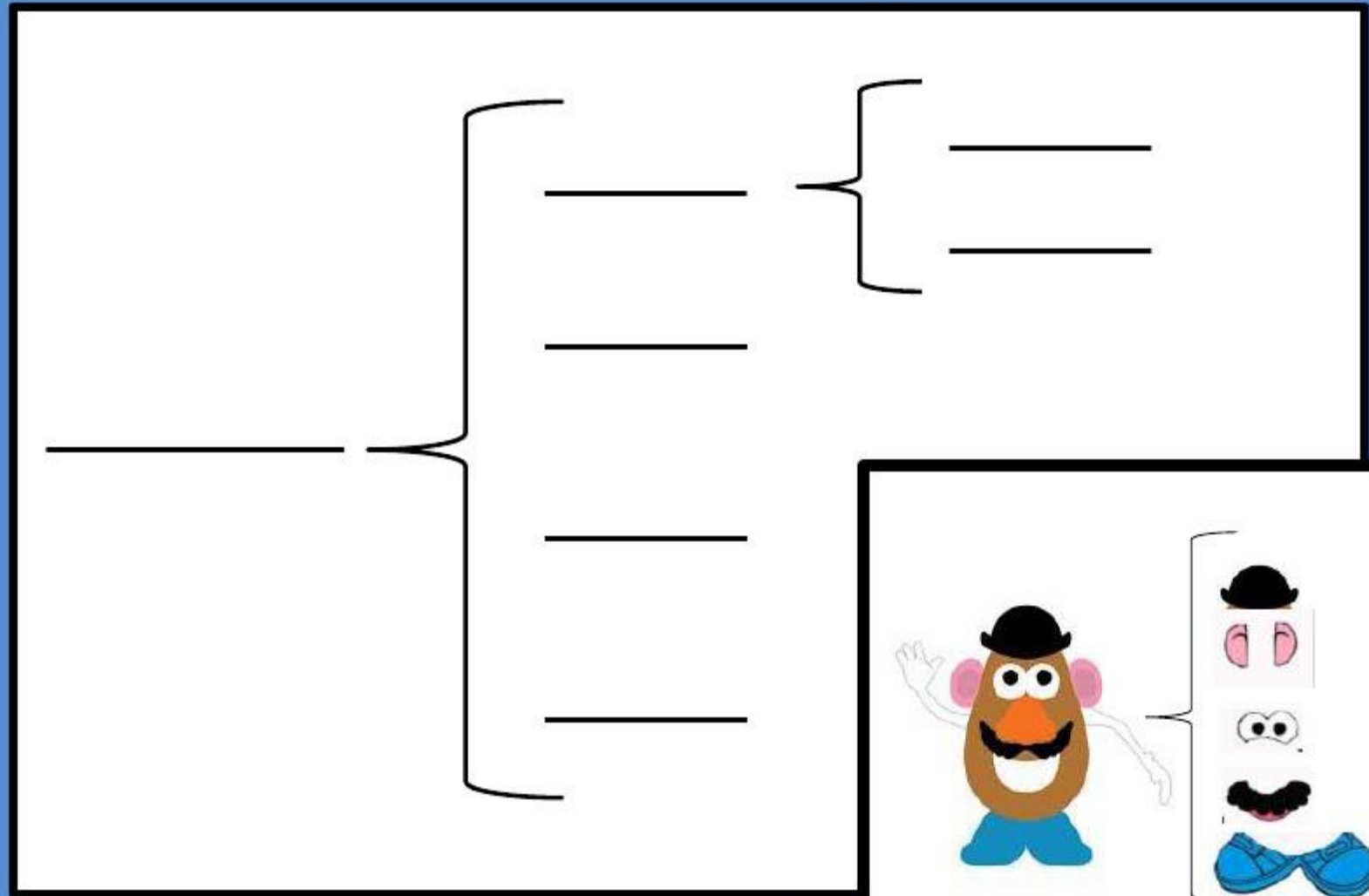
2-D



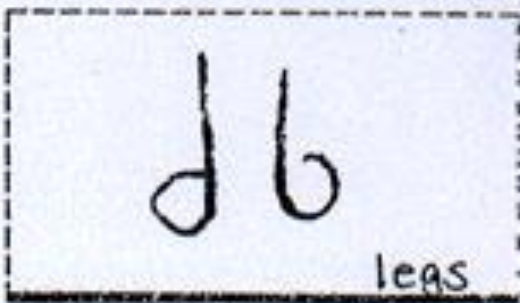
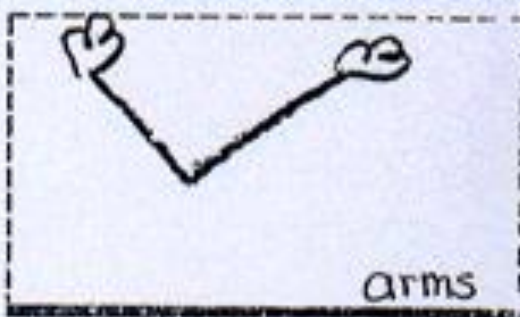
3-D



Brace Map



Whole to Parts





head

eyes

bill

body

belly

wings

webbed feet

tail

Mrs. Nieves' class
read There was a
Cold Lady Who
Swallowed
Some Snow.

1 carrot nose

2 stick arms

2 coal eyes

1 tall hat

3 white snowballs

1 coal mouth

1 scarf

4 round buttons

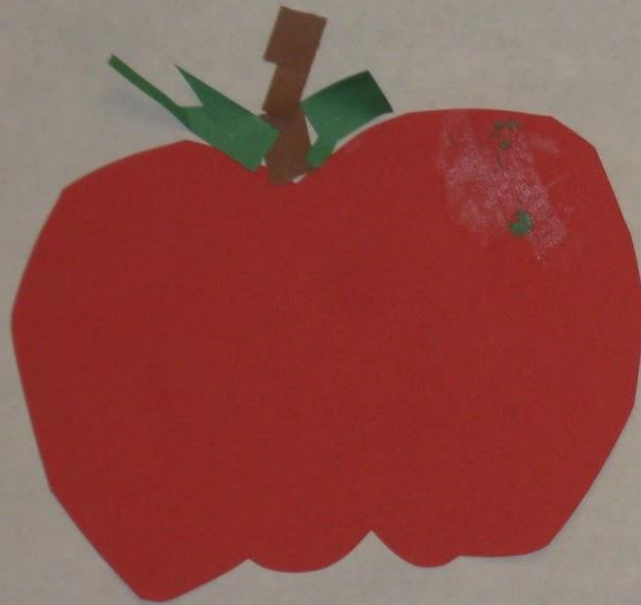
snowman

We made a brace
map to show the
parts to make a
snowman.

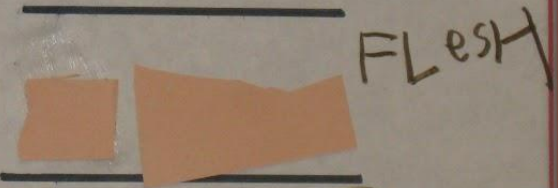
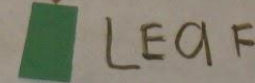
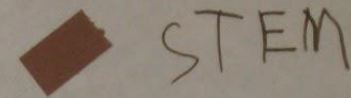
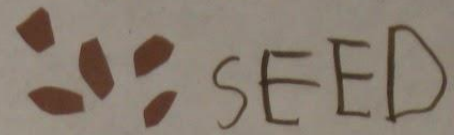


Whole

APPLE

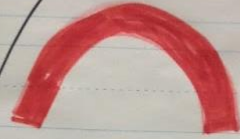


Interactive Writing
labeling the parts



Brace Map

Parts



red



ORANGE



YELLOW



GREEN

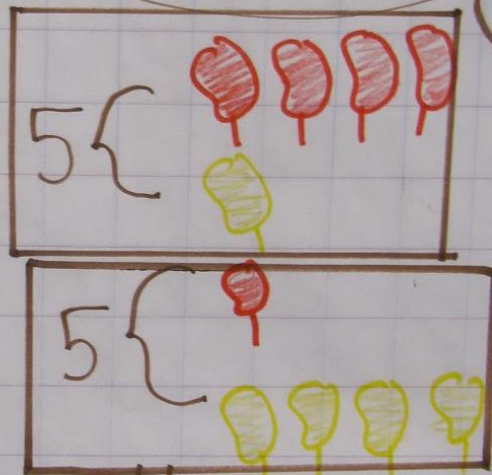
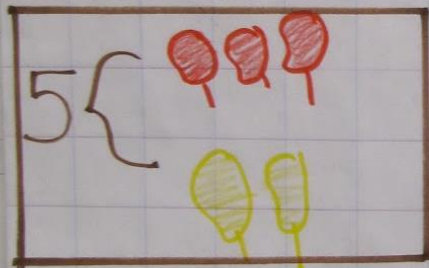


BLUE



PURPLE

I had some red and yellow leaves. I had 5 in all.



4 Ways

We noticed a pattern.
You could have 4 yellow and 1 red. We checked to see if we had 4 red and 1 yellow.

Drug Facts

Active ingredients

Avobenzone 2.0%
Ensulizole 1.5%
Octisalate 5.0%
Octocrylene 1.3%

Purpose

Sunscreen

Uses

- helps prevent sunburn
- if used as directed with other sun protection measures (see **Directions**), decreases the risk of skin cancer and early skin aging caused by the sun

Warnings

For external use only

Do not use on damaged or broken skin.

When using this product keep out of eyes.
Rinse with water to remove.

Stop use and ask a doctor if rash occurs.

Keep out of reach of children. If swallowed, get medical help or contact a Poison Control Center right away.

Directions

- apply liberally to face and neck 15 minutes before sun exposure
- reapply at least every 2 hours

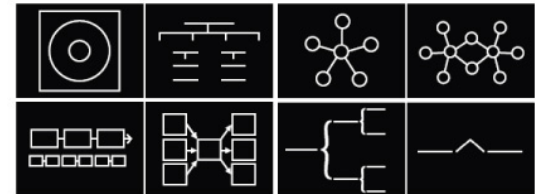
Relating Factor:
is part of

Petals

Head

Flower

Body



Bridge

Proper Nouns
relating factors

Tomanek
mom

as

Christmas
holiday

as

Zy
sister

as

A.J.
dog

as

the
is

In

Summer



hot



shorts + a tee-shirt.

RF: it can be

RF: and so I wear

In

Fall



Warm and windy



a wind-breaker + jeans

In Winter



Cold and rainy or snowy



a hat, a scarf, mittens, a coat and pants.

In the Spring



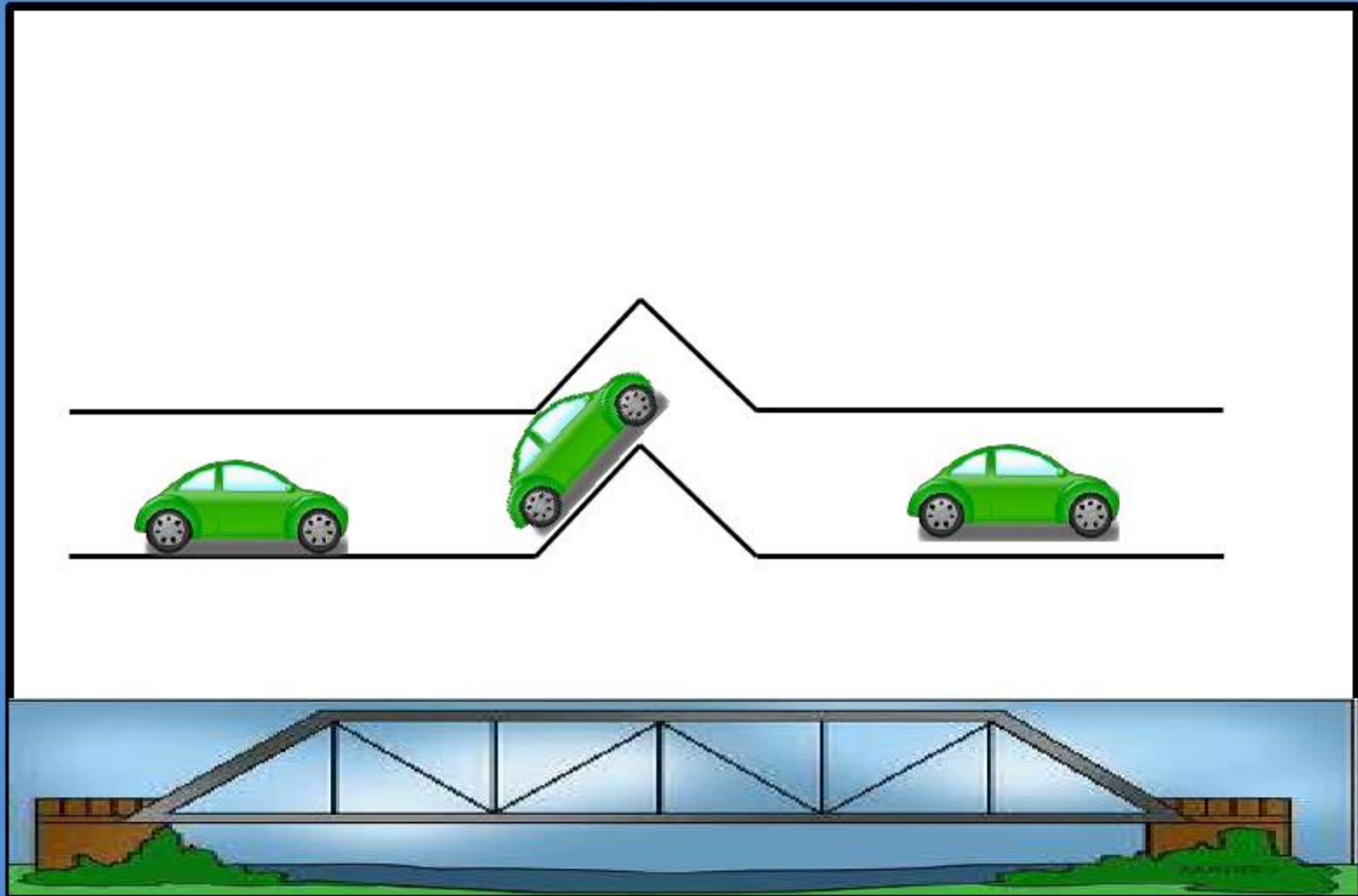
Warm and rainy



A raincoat, boots and pants.



Bridge Map

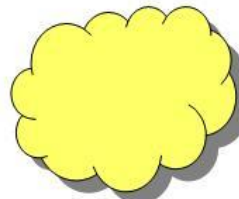
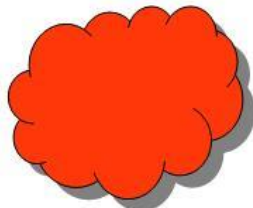


Analogy
(connecting ideas or words)

My name is: _____

Directions: Use words and/or pictures to compare ideas for the different colors.

Matching Colors

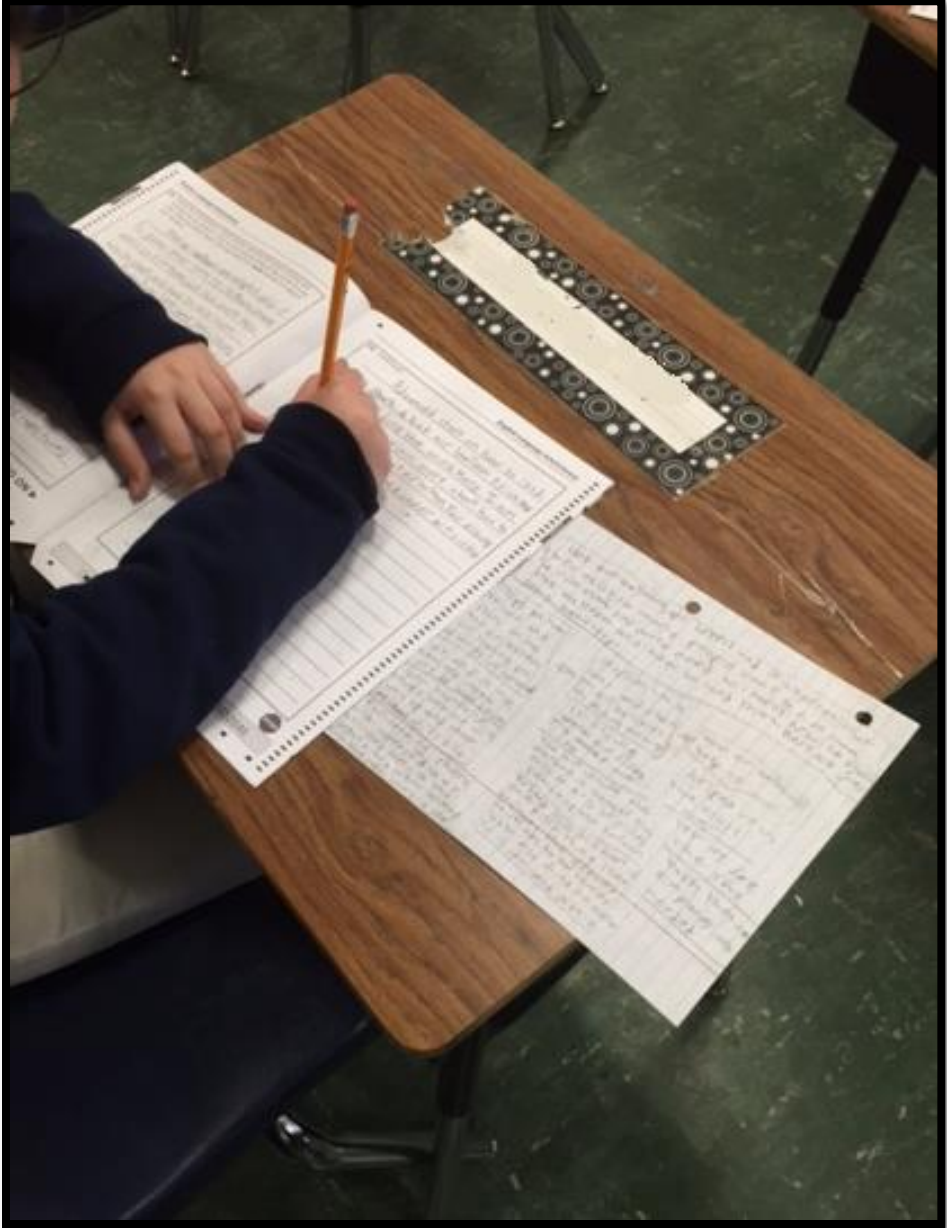
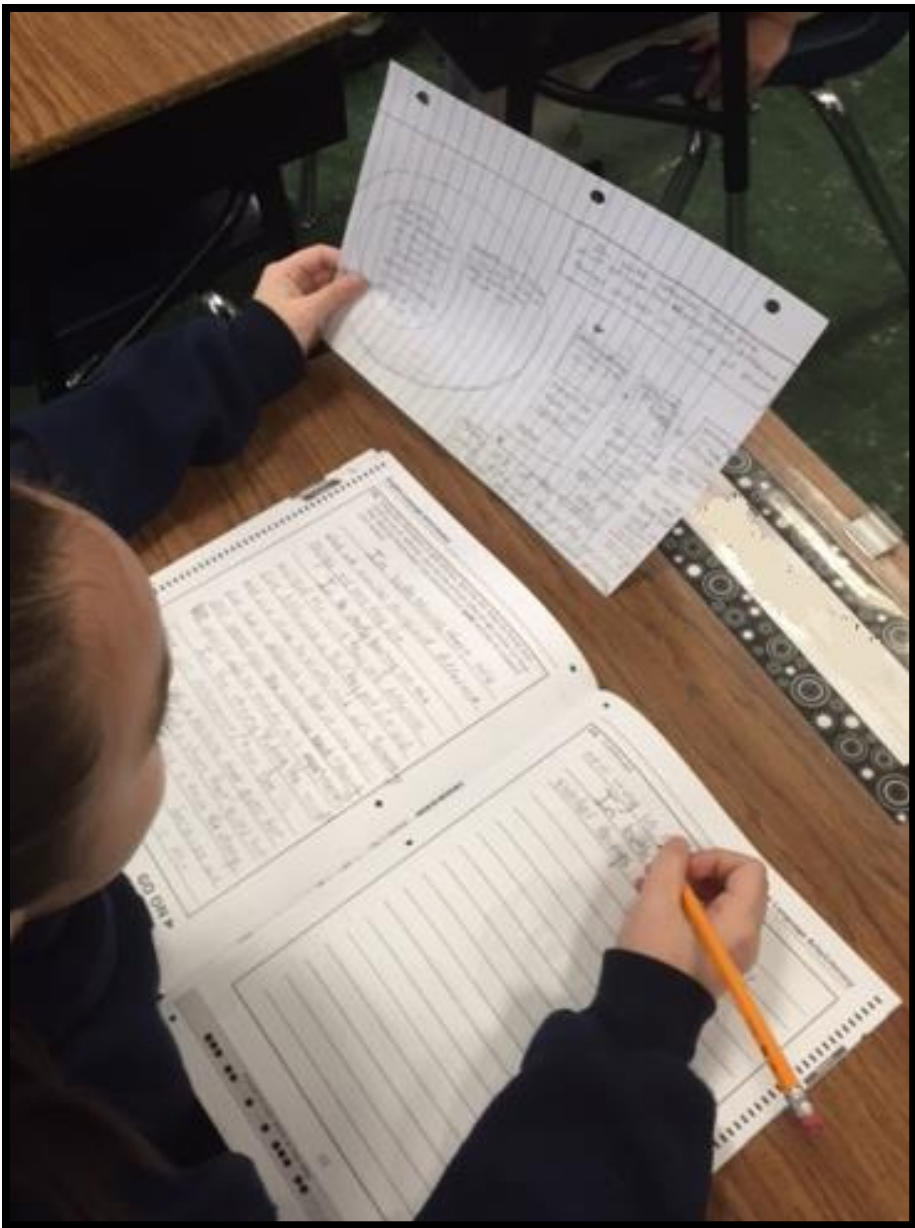


as

as



Relating factor: _____ is the color of _____



Applying Thinking Maps









Choose 1 Broad Topic that you teach; like plants, exploration, or 3D Geometry

Work with a partner or colleague for ideas

Use worksheet to create 8 Thinking Maps based on your topic

Thinking Maps®: A Language for Learning Chapter 5: Instructional Strategies

THINKING ABOUT _____

Today's Objectives

David's presentation on Thinking Maps

Participants practice using Thinking Maps

The learner will...
...use a variety of Thinking Maps to organize their thoughts.

...list and define the 8 Thinking Maps and the associated cognitive functions they support.

Participants will use Thinking Maps with students

Student engagement will increase

Students critical thinking will increase