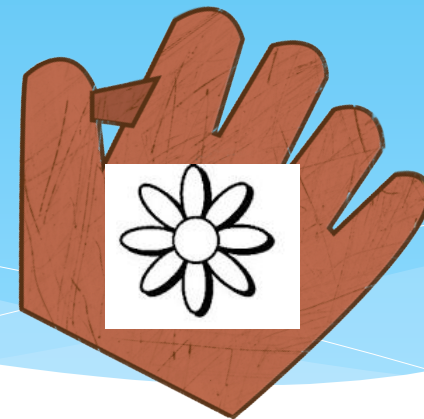


# Meet the Icons!

Depth & Complexity 101

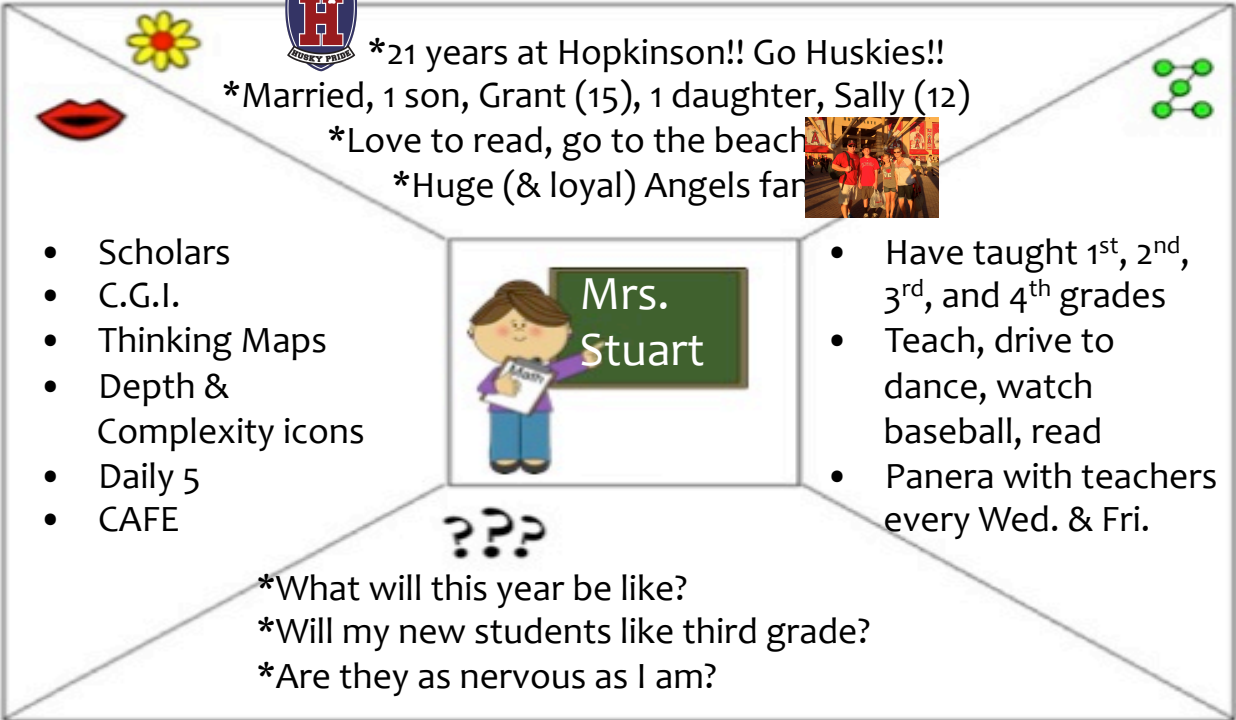
Dr. Sandra Kaplan's Prompts of Depth & Complexity  
in the K-5 Classroom



Presented by Jenny Stuart  
& Jill Moore



# Let's Get Acquainted

## Introduce Yourself to Students Using Depth and Complexity



 \*21 years at Hopkinson!! Go Huskies!!  
\*Married, 1 son, Grant (15), 1 daughter, Sally (12)  
\*Love to read, go to the beach  
\*Huge (& loyal) Angels fan 

- Scholars
- C.G.I.
- Thinking Maps
- Depth & Complexity icons
- Daily 5
- CAFE

**Mrs. Stuart**

- Have taught 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> grades
- Teach, drive to dance, watch baseball, read
- Panera with teachers every Wed. & Fri.

???

- \*What will this year be like?
- \*Will my new students like third grade?
- \*Are they as nervous as I am?

# Rationale

- \* Dr. Sandra Kaplan developed the Icons of **Depth & Complexity** after years of research, in an effort to help children generate a deeper, more complex thought process.
- \* Students involved in the learning process – whether reading a text, watching a presentation, or conducting an experiment, can apply elements of depth & complexity as they begin to **assimilate new information, make connections, and dig deeper.**

# Why incorporate the icons?

- Quick, easy application to ANY material
- For visual learners “A picture is worth a thousand words”
- Provide scaffolding for higher level thinking
- Develop “Habits of Mind” that become ingrained
- Advanced learners are asked to reach the upper limits of their ZPD
- Increase student enthusiasm and motivation



# Heads up!!



- \* We are not TEACHING the icons, rather we are teaching concepts to new levels of depth & complexity using pictures (icons) to represent the thinking prompts and strategies.
- \* The prompts are the verbal cues & terms used in ongoing discussions that lead to deeper thinking & understanding. The more they are used in instruction, the stronger the learners' connections will become.



America's Favorite Pastime

**BASEBALL!!!**

You can apply the prompts to  
nearly any subject!

**Batter up...**

# How to USE the Icons

## 1<sup>st</sup> Base: Define the icon

Give the meaning/definition

Give synonyms

Model the prompt in context

## 2<sup>nd</sup> Base: Relate it to Previous Knowledge

What stories can you think of that ...

What scientific finding also ...

What historical event ...

## 3<sup>rd</sup> Base: Apply to NEW Knowledge

As you read ...

How can you apply this icon to solve a problem ...

Answer a question...

## Homerun: Integrate into Real World

How does this relate to you in the real world?

How can we relate it to CURRENT events?





# Team “DEPTH”



- \* Depth refers to studying a topic from the CONCRETE to the ABSTRACT; from the KNOWN to the UNKNOWN
- \* Requires students to examine the facts, concepts, generalization, principles & theories.
- \* Requires learners to uncover more details and new knowledge related to a topic of study.
- \* Encourages students to adopt perspectives & recognize patterns in connections.
- \* *Your starting line up for Team DEPTH:*

# Language of the Discipline



Think like a **DISCIPLINARIAN**, an **AUTHOR**, an **EXPERT**

- Vocabulary/ Words
- Terms
- Jargon
- Terminology
- Figures of Speech
- Abbreviations
- Signs/Symbols

## IMPORTANT WORDS relating to **BASEBALL**:

- *Pitching*: Starter  
Set Up  
Reliever  
Closer

- **Types of Pitches**
- **Defensive Positions**
- **Equipment**
- **Types of Hits**
- **Types of Outs**





\* **TOOLS** used in this field:

Equipment:

- \* hat, jersey
- \* bats, balls, gloves
- \* helmets, face mask
- \* chest protector
- \* throat guard
- \* cleats, shin guards



Baseball **EXPRESSIONS:**

- \* Walk-off
- \* Step up to the plate
- \* tough with two
- \* America's Favorite Pastime
- \* Come on Blue!
- \* Ride the pine
- \* Southpaw
- \* Switch hitter
- \* base on balls

# Details

Details that support/define/tell about:  
a character, an event, the problem,  
conclusion, place, idea, etc...



Who? What? Where? When? Why?

Clues	Factors
Facts	Elements
Features	Attributes
Data	Items
Traits	Parts
Ideas	specifics



## Baseball's

### Important Parts, Facts, Features:

9 innings	3 bases
9 players	home plate
3 outs	single
4 balls, 3 strikes	double
Errors	triple
American/National Leagues	



- \* **Determine the most important details:**
- \* Knowing your pitch count – improves your chances of getting a hit
- \* Defensive positioning – improves your chances of getting the out



Important BASEBALL PEOPLE,  
PLACES, EVENTS:

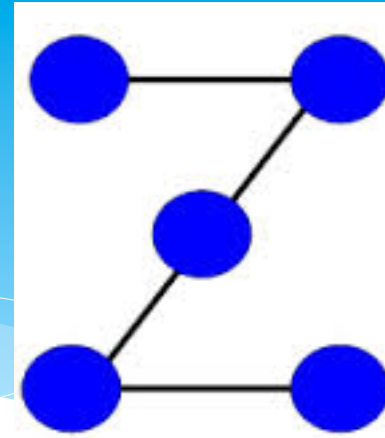
Babe Ruth, Hank Aaron, Mickey  
Mantle, Jackie Robinson, Branch  
Rickey, Lou Gehrig, **Derek Jeter**,  
Mike Trout

World Series, Jackie Robinson  
Day, Opening Day, Yankee  
Stadium, Green Monster,  
Cooperstown



# Patterns

Examine patterns in the story/text that influence: behavior, the problem, a place, an event, the outcome



## \* Patterns are:

Predictions	Sequence
Cycles	Order
Motifs	Relationships
Repetitions	Probabilities
Number lines	
Recurring Elements	

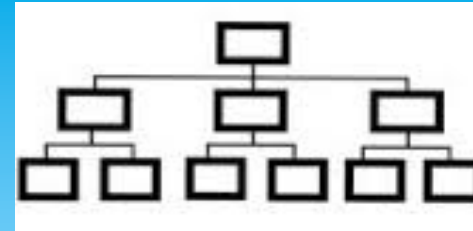


## Patterns in Baseball:

Superstitions  
National Anthem  
7<sup>th</sup> inning stretch  
Visitors, home team  
Batting order  
Three outs  
Playoffs  
World Series

# Rules

What keeps something together,  
makes something work, or causes  
order in behavior?



\*Structure \*Arrangement \*Organization

## \* Rules include:

Methods

Standards

Data collection

Reactions

Directions for conduct or  
procedure

## Rules in BASEBALL:

Three strikes, you're out

Strike zone

Infield Fly Rule

Baseline

Replay/challenge; not for balls & strikes

**Catcher blocking plate**

Catcher's interference

Double play

Pine tar not allowed

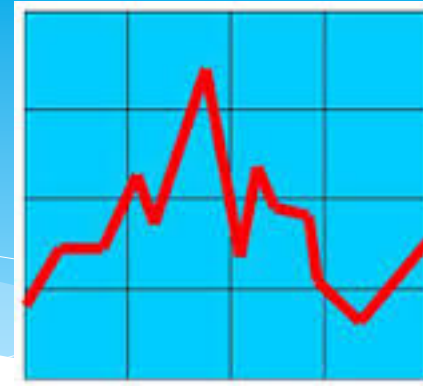
Spit balls illegal

Drug testing



# Trends

Examine the trends in/outside the the story/text that influence: a behavior, the problem, a place, an event, an idea, our the outcome.



\* Trends include:

Tendencies

Current styles

Influences

Changes over time

Data Representations

Direction

## Trends in BASEBALL:

More homeruns

Higher salaries

More trades

Fewer “one team” players

Increasing foreign born players

Increasing Tommy John surgeries

Increasing concussions

Increasing ticket prices

# Unanswered Questions



What is unresolved or remains unclear about: the character's actions/ behaviors, an event, the problem, the motive, the outcome.

## \* Unanswered Questions are:

An unknown

Something unexplained

Something unresolved

Something unproven

Missing information/facts

A dilemma

Doubt/uncertainty

A discrepancy

## Unanswered ?s in Baseball:

Why is the # of foreign born players increasing?

How will the use of instant replay impact baseball?

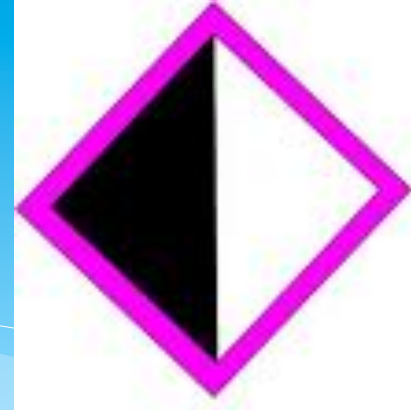
Does the Money ball technique really work?

Why do salaries keep rising?

How did the Red Sox go from first to worst?

# Ethics

Right/Fair vs. Wrong/Unfair



## \* Ethics are:

Good/bad

Prejudices

Controversies

Right/wrong

Values/morals

Biases

Justice

## Ethical issues in Baseball:

Drug use (Alex Rodriguez, Chris Davis)

Gambling (Pete Rose)

Cheating (White Sox 1919, pine tar)

***Role models/chewing tobacco***

Racism (Jackie Robinson)

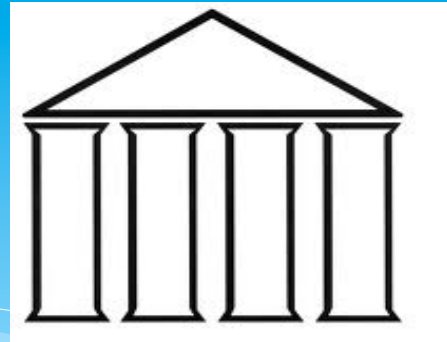
Small vs. Large market teams

Salaries



# Big Idea

What is the main idea?

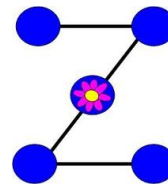


## \* Big Ideas are:

Generalizations  
Overarching  
Principle, theories, laws  
Related to global ideas/themes  
Developed from many facts  
Summarizations

## Big Ideas in Baseball:

\*Statistics drive  
coaches' decisions

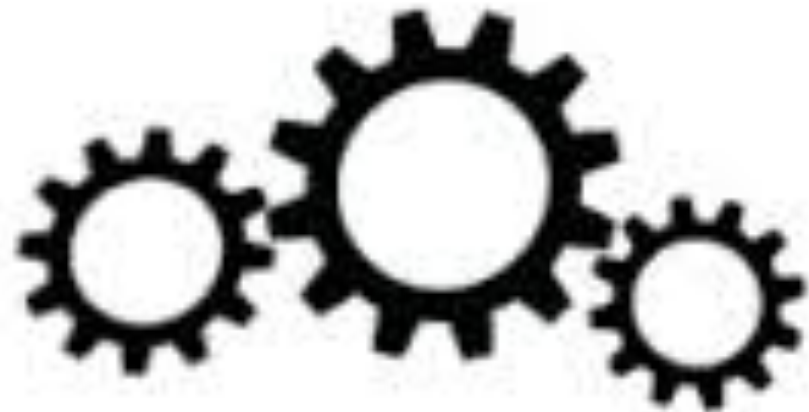
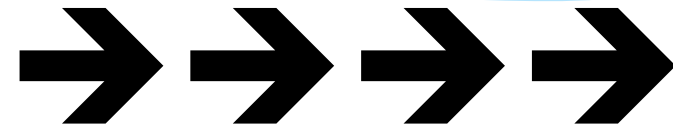


\*playtime/draft  
\*pitcher/batter  
\*salary/value  
\*defensive positioning

\*It's America's Favorite  
Pastime

# Meet the Depth Rookies

## The Newest Prompts



# Impact

How do forces affect an outcome?

## \* Impact involves:

Affect/effects, Identity, Force

\*How does \_\_\_\_\_  
influence \_\_\_\_\_?

\*What are the effects of  
\_\_\_\_\_ on \_\_\_\_\_?



## Impact in Baseball:

\*How did Jackie Robinson impact baseball? Greater impact?

\*How have illegal drugs impacted MLB? (Alex Rodriguez, Barry Bonds, Nelson Cruz, etc..)

**\*What has Mike Trout's impact been on the Angels? On baseball?**

\*How has Billy Beane's philosophy affected baseball today?



# Process



The procedure by which something gets done.

\* Process involves:

Sequence  
Connections  
Order  
Link  
Arrange

\*What steps are used to create/perform/complete this?

\*Writing Process

\*Flow map



Process in Baseball:

*Pitcher's wind up*

Batter's ritual

Innings 1 – 9

Draft

Trades

Warm ups

Superstitions

# Proof

The evidence needed to validate something.



## \* Proof involves:

Determining fact vs. opinion

Supporting with evidence

Authenticating

Proving

Documenting

\*What info verifies this  
beyond a reasonable doubt?

\*Not judging; proving

## Proof in Baseball:

Instant Replay

Statistics/Box Score

Records (W/L)

Demographics

# Motive

Drives the “reason why...”



## \* Motive involves:

Catalyst

Reason

Excite

Inquire

Explain

\*What is causing this to happen?

\*How is the idea/work stimulated?

## Motive in Baseball:

\*Branch Rickey hiring Jackie

Robinson: (idealism/good business sense)

\*Moneyball: Wall Street philosophy  
“buy low, sell high”

\*Workouts

\*Switch hitting/pitchers

\*Steroid use

# Team “Complexity”



- \* Complexity includes making RELATIONSHIPS, CONNECT CONCEPTS and LAYER.
- \* Makes connections and BRIDGES to other disciplines, enhancing a unit of study.
- \* Requires learners to relate concepts/ideas at a HIGHER, MORE SOPHISTICATED LEVEL
- \* Encourages students to MAKE ASSOCIATIONS among diverse subjects and find MULTIPLE SOLUTIONS from multiple POINTS OF VIEW.
- \* Your starting line up for Team COMPLEXITY:

# CHANGE/RELATE OVER TIME



Someone or something can change over time.

## Change over time includes:

- Looking at past, present, future
- Applying something historic to present knowledge
- Contributions
- Innovations
- Noting change
- Compare topics past & present, predict future

## Baseball OVER TIME

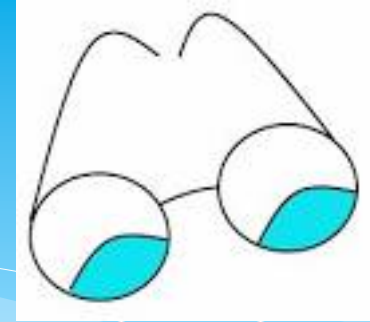
### CHANGES in BASEBALL

- \*Negro Leagues to a diverse MLB
- \*salaries
- \*instant replay
- \*free agency
- \*safety equipment/rules
- \*social media
- \*pitch count

### Ways BASEBALL has REMAINED the SAME

- \*9 innings
- \*9 players
- \*no arguing balls/strikes
- \*uniforms
- \*distance between bases/mound

# Multiple Perspectives



How do different characters/groups view the same information, event, idea?

## Multiple Perspectives include:

- Points of View
- often depends on place/time
- Affected by roles & responsibilities
- Different priorities

## Multiple Perspectives in Baseball

- \*Favorite teams/players
- \*Scouts
- \*Strike zone
- \*Umpires (ask for help)
- \*Sports psychologists
- \*Historians
- \*Scouts
- \*Press



# My Perspective

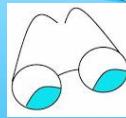
Why is the topic important to me?

\*Grew up a  
California Angels  
fan: games with  
my grandpa

\*My son, Grant, has  
loved the game  
since he could walk

\*Enjoy Angel  
games as a  
family

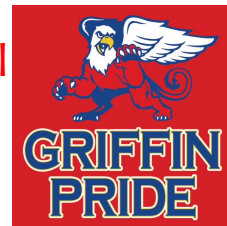
**My  
Perspective  
on Baseball**



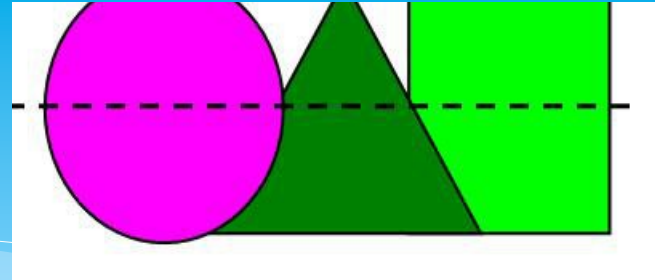
We went to  
Cooperstown!

\*Scorekeeper

\*LAHS Griffins  
FROSH Baseball



# Across the Disciplines



What would different disciplines say about: a behavior, the problem, an idea, the outcome?

## Across the Disciplines include:

- Multidisciplinary
- interdisciplinary
- Touching on multiple subjects at once
- Integrating subjects
- Themes
- Associations

## Across the Disciplines w/ Baseball

\*Mainly related to Athletics,  
but also connected to:

\*Mathematics/Statistics

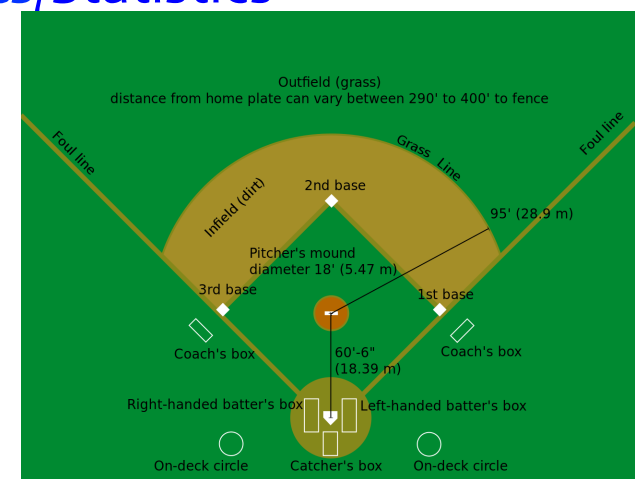
\*Technology

\*Media

\*History

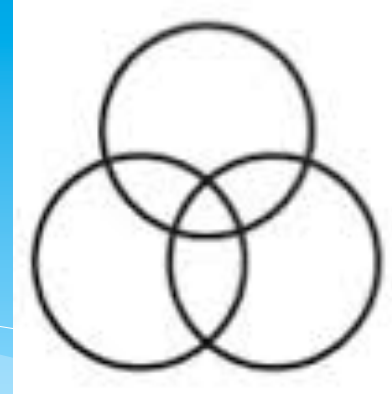
\*Civics

\*Economics





# CONTEXT



How do circumstances affect the outcome?

## Context involves:

- Time/place
- Philosophies
- Background
- Current conditions
- Circumstances
- Time frame



## Context as it relates to Baseball

*\*Would Jackie Robinson be a hero if he was **playing today?***

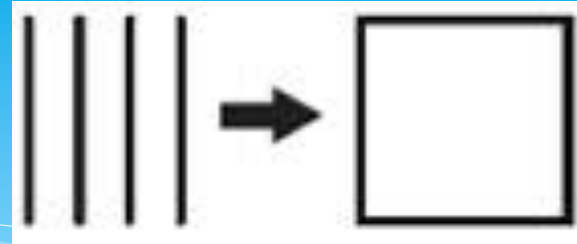
*\*How did World War II affect baseball?*

*\*What is the current public opinion on steroid use in the major leagues?*

*\*What role did baseball play in Japanese internment camps?*

*\*How does geography determine player talent?*

# Translate



How is the same idea interpreted in different situations and by different people?

## Translate involves:

- Multiple meanings
- Restating
- Interpreting
- Reciting
- Expressing
- Explaining
- Converting
- Translations

## Translate as it relates to Baseball

- \* Interpretation of rules (catcher/transfer)
- \* Fan chants
- \* **Umpire's call**
- \* Pitch signs (pitcher/catcher)
- \* Base coach signs



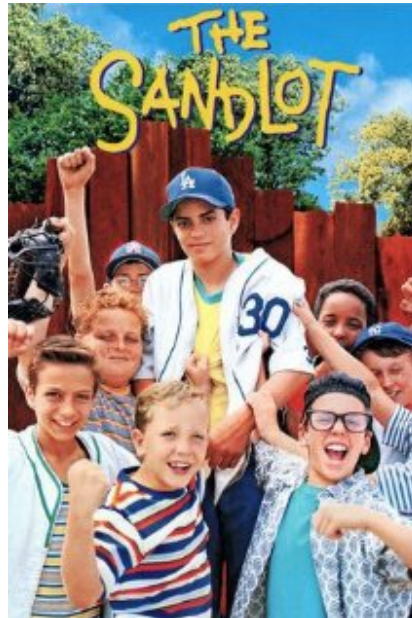
# Original



A first; something new to you, others or the world.

## Original involves:

- Unique
- Create
- Design
- Innovate
- Modify
- Redesign
- Engineer

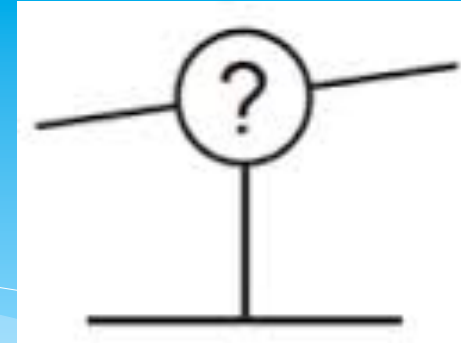


## Original as it relates to Baseball

### ***Movies/books***

Pitcher's protective headgear  
Convertible Stadiums  
Uniforms  
Give-a-ways

# Judgement



How is a decision or judgement to be made?  
Prove with evidence, judge with criteria.

## Judgement involves:

- Decide
- Determine
- Agree
- Disagree
- Verify
- Investigate
- Identify options to argue

## Judgment as it relates to Baseball

Suspensions  
Umpire ejects players/coaches  
New stadium locations  
Player choice/draft/trades  
All Star voting  
Fan reaction  
Try outs

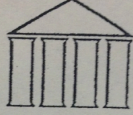
# Layering the Icons

- \* 1 icon/prompt: **SINGLETON** (i.e. Details)
- \* Jackie Robinson was talented at baseball, football, track, and basketball
- \* 2 icons: **SET/HYBRID** (i.e. Details & Patterns) or (Big Idea & Details)
- \* Robinson was an all star at every sport, then a star in middle school, high school, jr. college, UCLA, Negro Leagues, minors, major leagues
- \* Robinson was a gifted athlete.




Date 9/4/14

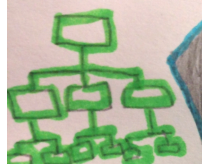
Story Title Jackie Robinson



Prove with evidence that Robinson opened  
doors.

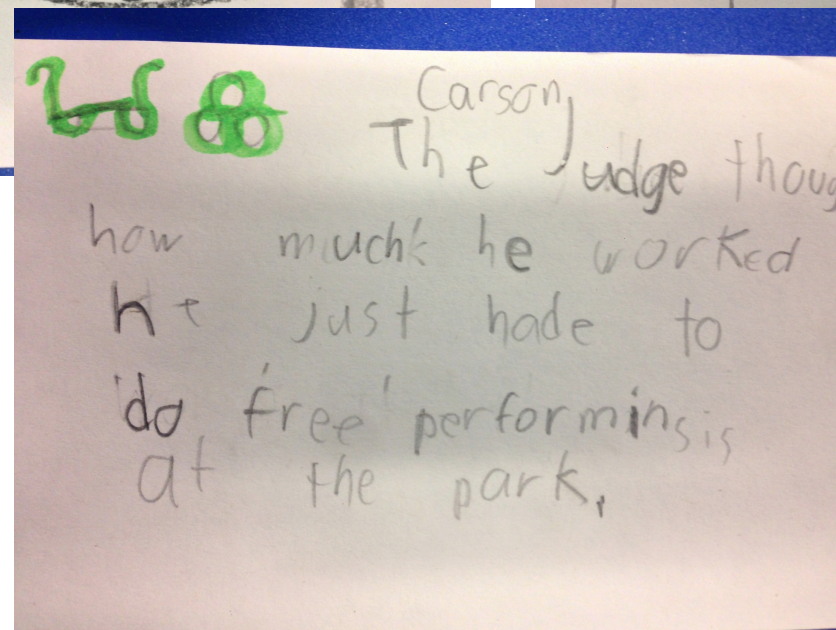
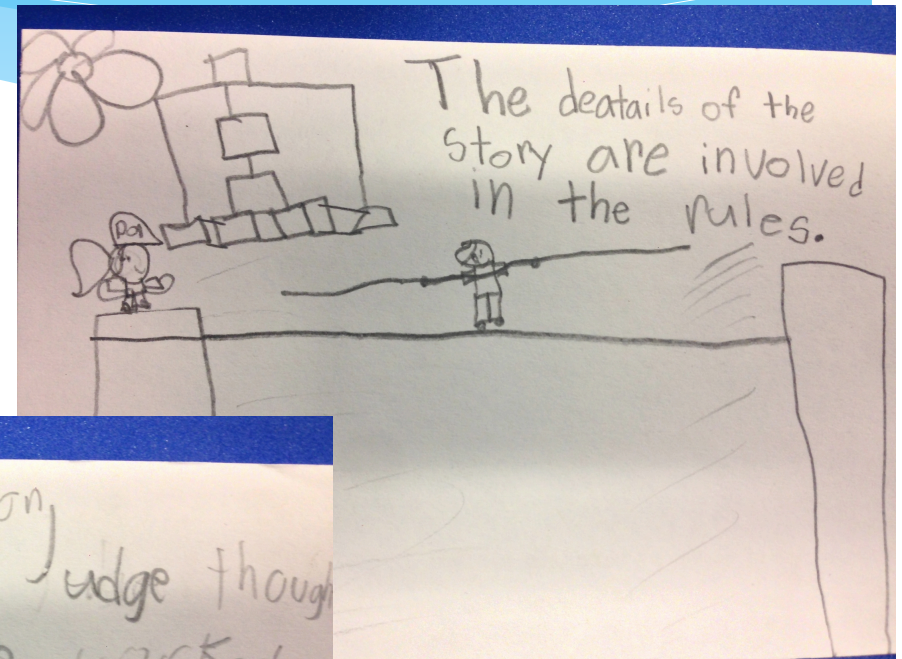
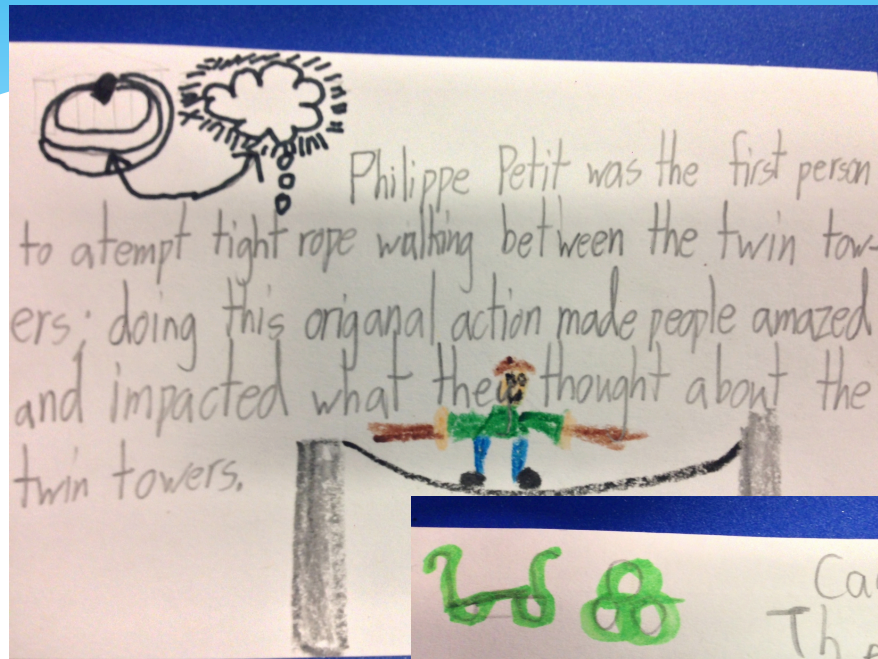
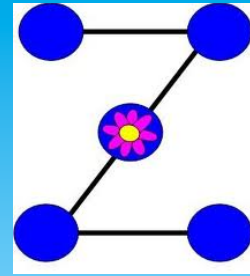


His the 1<sup>st</sup> African Am. to play Major League Base  
He fought in justice w/o violence.  
There are now African Am. people doing sport  
eared such awards as Rookie of the year and  
most valuable player.

 The police officers said to  
Philippe not to do tight rope  
walking between the Twin Towers because  
he could have hurt himself or other people  
below him but Philippe still broke the  
law for a good reason so his punishment  
from the judge was to perform to  
the children.



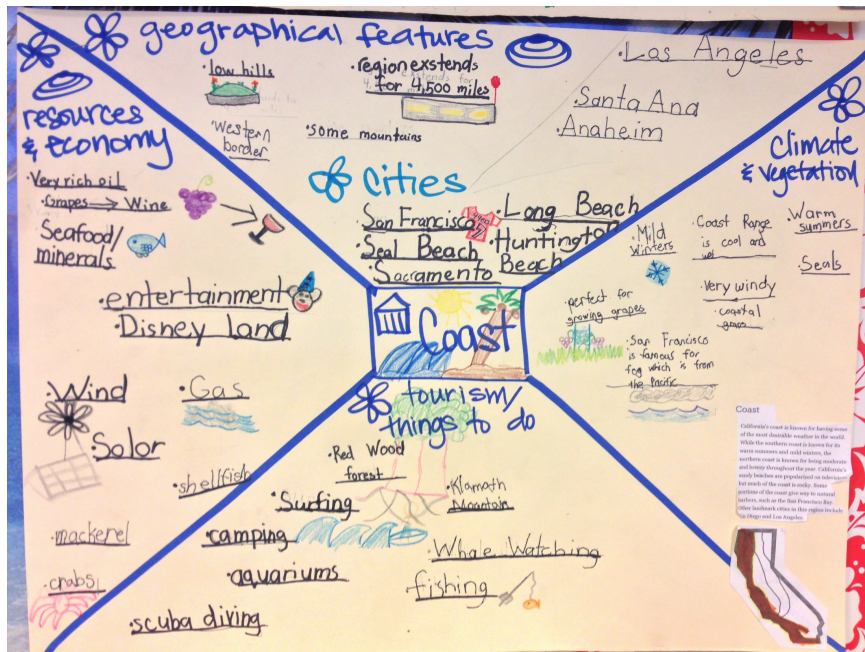
# Layering the Icons



# Use Organically

- \* Like thinking maps, you **DO NOT NEED** prefabricated worksheets.

Speaking of Thinking Maps...



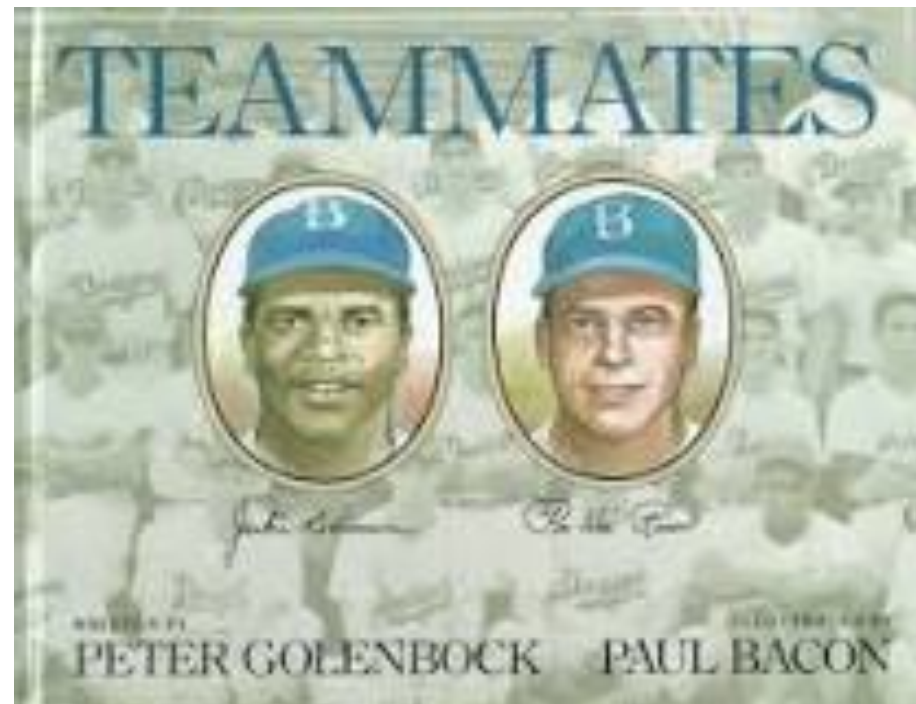
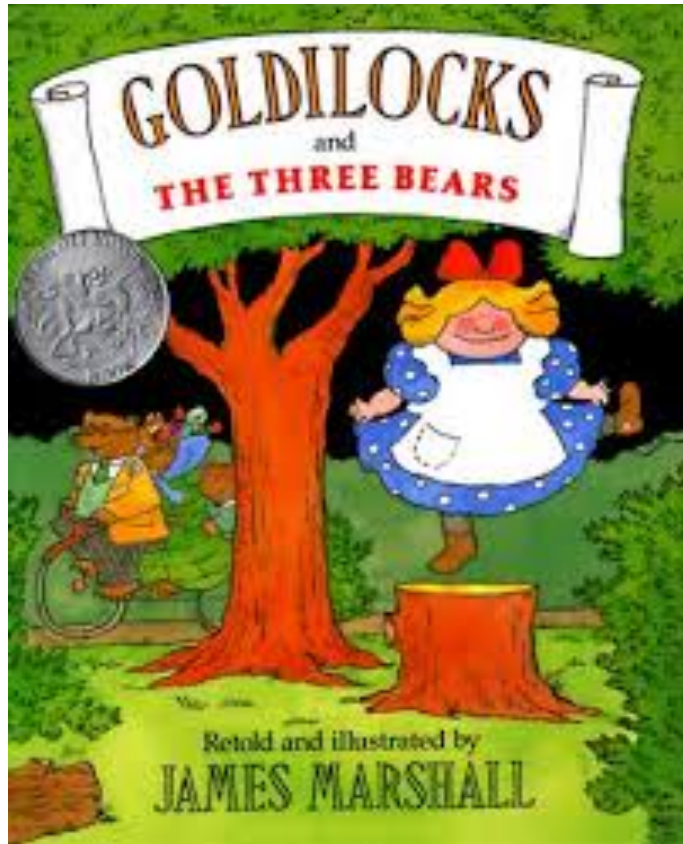
Comprehension Skill	Icon	Thinking Map
Main Idea		
Details		
Sequence of Events		
Cause and Effect		
Compare and Contrast		
Making Predictions	???	
Meaning in Context		
Fact and Opinion		
Making Inferences		
Author's Purpose		
Figurative Language		
Fantasy vs Reality		



# Batter up!

## Ways to Get Started

- \* Use a familiar story (Little Red Riding Hood, Teammates, The Recess Queen, Goldilocks)

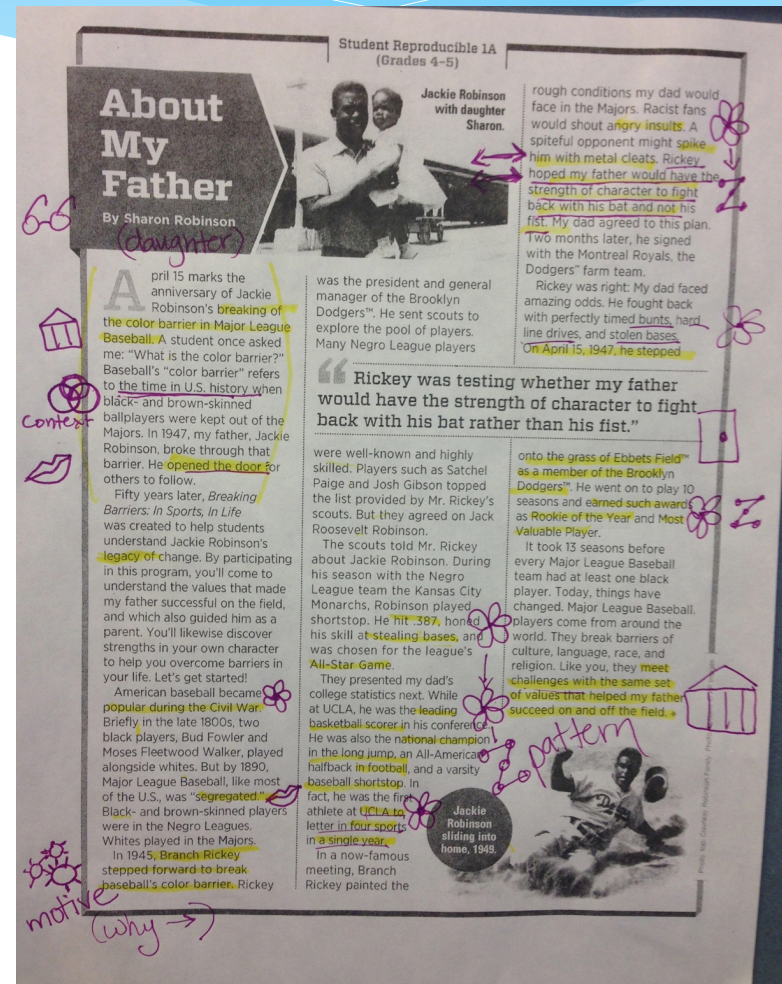




# Batter up!

- \* Frame the Teacher, then students frame themselves

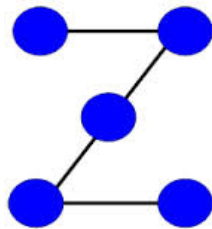
## \*Non-fiction texts/articles



# Batter up!

## Ways to Get Started

- \* Collaborate in small groups to find patterns amongst their peers using their self-frames
- \* Intro each icon as it relates to its symbol:
- \* Circle, line, circle, line, etc... It's a pattern!



### \*Engaging Books

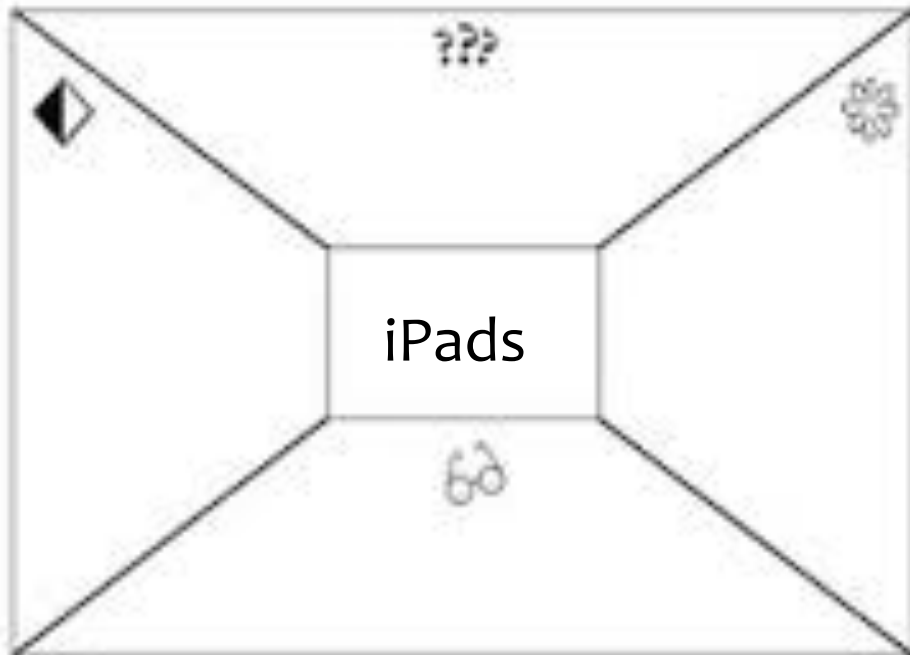


# Batter up!

## Ways to Get Started

\* Frame their interests!

Birthdays, iPads, Disneyland, etc..

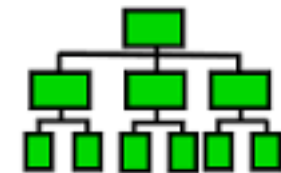


\*Use an interesting photo or piece of art

\*Analyze a song w/ icons

\*Use icons to introduce class rules:

Behavior  
Homework  
Speaking/Listening  
C.G.I.  
Daily 5



Rules



# Batter up!

## Ways to Get Started

### Utilize resources!

- \* Dr. Kaplan
- \* District “One Drive”
- \* Thinking Reader Map  
(by Evan Grandon)
- \* You Tube
- \* Internet
- \* Icon set (post n’ go!)

