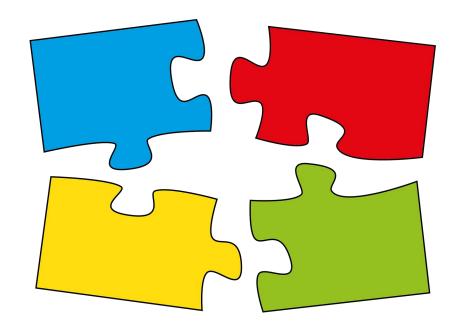
# Problem Solving

Drawing Conclusions and Justifying Solutions



# Drawing Conclusion

Students draw conclusions based on data presented to them in many forms, viewpoints, perspectives, and quality.

#### 3 Levels

- 1. A specific answer, idea, or opinion;
- 2. A full harvesting of all that has been achieved, including, for example, a listing of ideas considered; and
- 3. An objective look at the "thinking" that has been used.

# Drawing Conclusions



"The Circuit"	"It was that time of year again. Ito, the sharecropper, did not smile. It was natural. The peak of strawberry season was over and the last few days the workers, most of them <i>braceros</i> , were not picking as many boxes as they had during the months of June and July."	ELA  Level 1 - A specific answer, idea, or opinion;
"My Superpowers"	"Do you ever wish you had superpowers?"	
Flipped From the chapter "Diving Under"	"All I've ever wanted is for Juli Baker to leave me alone. For her to back off—you know, just give me some space."	Which narrative opening do you believe is most efficient?
"The Jacket"	"My clothes have failed me. I remember the green coat that I wore in fifth and sixth grades when you either danced like a champ or pressed yourself against a greasy wall, bitter as a penny toward the happy couples."	

"It was that time of year again. Ito, the

"The Circuit"	"It was that time of year again. Ito, the sharecropper, did not smile. It was natural. The peak of strawberry season was over and the last few days the workers, most of them braceros, were not picking as many boxes as they had during the months of June and July."	Leve harv has i
"My Superpowers"	"Do you ever wish you had superpowers?"	exan idea
Flipped From the chapter "Diving Under"	"All I've ever wanted is for Juli Baker to leave me alone. For her to back off—you know, just give me some space."	Why?
"The Jacket"	"My clothes have failed me. I remember the green coat that I wore in fifth and sixth grades when you either danced like a champ or pressed yourself against a greasy wall, bitter as a penny toward the happy couples."	

"It was that time of year again. Ito, the

# ELA el 2 - A full

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"My Superpowers"	
Flipped	
From the chapter	
"Diving Under"	The state of the s
"The Jacket"	

"The Circuit"

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them *braceros*, were not picking as many boxes as they had during the months of

The peak of strawberry season was over

# ELA Level 3 - An objective

look at the "thinking" that has been used.

Choose one of the less

opening and improve it.

Explain your thinking

Explain your thinking about why what you added improved the narrative opening.

# Math

Level 1 - A specific answer, idea, or opinion;

Exercise

The cost of a babysitting service on a cruise is \$10 for the first hour and \$12 for each additional hour. If the total cost of babysitting baby Aaron was \$58, how many hours was Aaron at the sitter?

If the total cost of babysitting baby Aaron was \$58, how many hours was Aaron at the sitter?

#### Algebraic Solution

h = number of additional hours

$$12h + 10 = 58$$

$$12h + 10 - 10 = 58 - 10$$

$$12h + 0 = 48$$

$$\left(\frac{1}{12}\right)(12h) = (48)\left(\frac{1}{12}\right)$$

$$1h = 4$$

$$h = 4$$

$$1 + 4 = 5$$

# Math

Level 2 - A full harvesting of all that has been achieved, including, for example, a listing of ideas considered; (students compare with another student that solved the problem a different way.)

Explain how each student solved the problem.

Level 3 - An objective look at the "thinking" that has been used.

Explain which strategy was more efficient and why?

#### Exercise

The cost of a babysitting service on a cruise is \$10 for the first hour and \$12 for each additional hour. If the total cost of babysitting baby Aaron was \$58, how many hours was Aaron at the sitter?

#### Algebraic Solution

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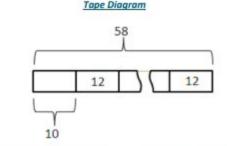
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$$h = 4$$

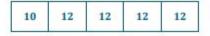
$$1 + 4 = 5$$



(not enough, need 58)

10 + 12 + 12 = 34

$$10 + 12 + 12 + 12 = 46$$
 (not enough, need 58)



$$10 + 12 + 12 + 12 + 12 = 58$$

$$58 - 10 = 48$$

$$48 + 12 = 4$$

Aaron was with the babysitter for 5 hours.

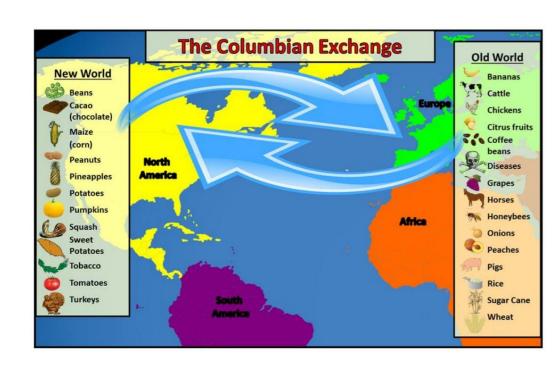
# Social Studies

Level 1: A specific answer, idea, or opinion;

Students are introduced to the Columbian Exchange by Showing them this source.

Students must respond to the following question:

What is the Columbian Exchange?



# Social Studies

Level 2: A full harvesting of all that has been achieved, including, for example, a listing of ideas considered;

Analyze multiple sources to determine positive and negative effects of Columbian Exchange.

Using the sources and your knowledge of social studies, Did the Columbian Exchange have a positive or negative effect on the World?

Making a claim using multiple sources and adding evidence to justify your answer

3. An objective look at the "thinking" that has been used.

Explain the counterclaim. If you claimed that the Columbian Exchange was positive then explain why another student would claim that it was negative and vice versa.

### Science

Level 1: A specific answer, idea, or opinion;

Students would read "Drinking Cleopatra's Tears" to gather the information to answer the following question: Where does water vapor in the air come from?

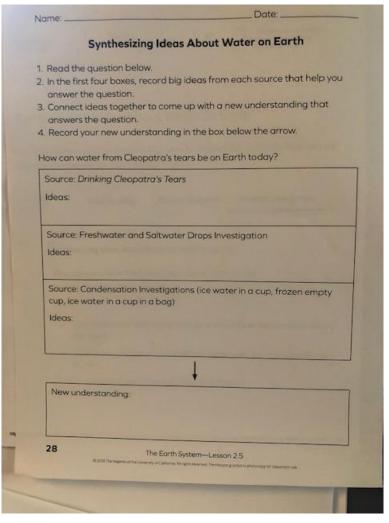
Level 2: A full harvesting of all that has been achieved, including, for example, a listing of ideas considered;

Students look at multiple sources to arrive to an overall conclusion and cite ideas from each source.

Level 3: An objective look at the "thinking" that has been used.

Show students an example of an incorrect water cycle.

How would you reteach the student who drew the incorrect water cycle?



# LLA

Your turn to bump it up a few levels.

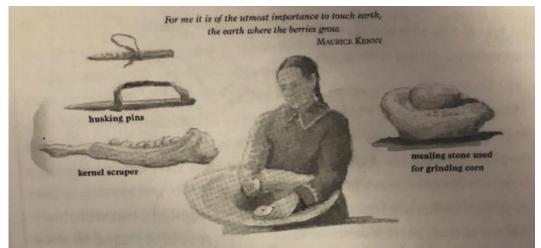
#### **Personal Narrative Short Story** real incidents; limited to imagined incidents; Topics what has happened unlimited topics time and place in a memory imaginary time and place Setting sequence of events in an sequence of events based Plot incident with an explicit on a conflict with an implicit statement about significance meaning or theme narrator is the main character characters may be any Characters number of people, animals, (first-person point of view); there may be other or objects characters limited to what might really imaginary dialogue Dialoque have been said; may have to recreate dialogue

4. With a group, discuss your ideas about how personal narratives and short stories may be similar or different. Write down the conclusions you can draw, based on your discussion.

# Math

In a city election, two people ran against each other to be the next mayor. Candidate 1 received 24,000 votes. Candidate 2 recieved 8,000 votes. What is the relationship between candidate's 1's votes and candidate 2's votes?

# Social Studies



The eastern woodland not only had plenty of game and fish, but it had fertile soil as well. Corn was so important to the Iroquois that they called it "our life". They planted squash and beans along with the corn. Food was roasted over fires in sunken pits or boiled in clay pots. Corn was eaten on the cob or in soup. The Iroquois ground corn and baked in into cakes. Sometimes they mixed cornmeal with maple sugar, dried berries, or chopped dried meat. They often boiled corn with wood ashes. This made it more nutritious and easier to remove the loosened hulls. Nuts and berries and other wild plants were also part of Iroquois meals. The wild strawberry was a special favorite. Spring was the time they collected maple sugar.

What natural resources are the Iroquois Native Americans using in this source? What are they using it for?

# Science

Rec	Reading About Design Solutions
. Rec	nd Engineering Clean Water. Ford ideas from the book that will help you answer the question below
Vhat	do engineers do while designing solutions to problems?
	The state of the second
	The same of the sa

# For Next Meeting:

Give the new learning to the teacher(s) on your grade level that are not members of the ILT.

Bring back the "bumped up" example of a lesson from their curriculum.

Next meeting - October 9

