

Transition Improv: Math Situations

Topics: Addition-Subtraction, Area-Perimeter, Multiplication-Division, Sine-Cosine, Volume-Surface Area, Linear-Quadratic Fractions-Decimals, Integral-Derivative, Constant-Variable

Transitions: However,
On the other hand,
Then again,

Frames: You need to add when ... because...
When you ... you need to subtract because...
You need to calculate volume when ... because...
When you ... you need to use decimals because...

But Director can prompt for conflication and/or spark ideas, if needed.





APPLICATION TIME

Think about how you might support conversation skills using Transition Improvactivities in your upcoming units or lessons.

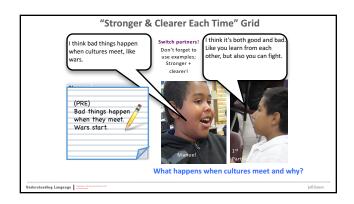


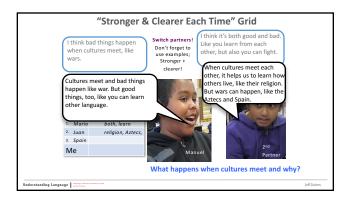
Designing "Stronger & Clearer Each Time" Activities

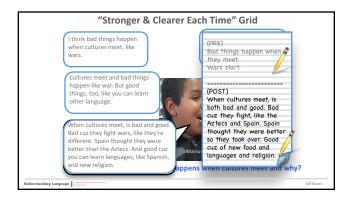


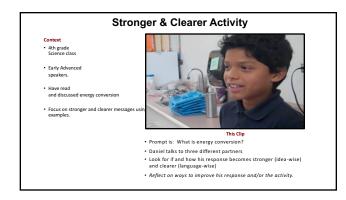
- 1. Prompt for an original response
- 2. Successive partners: borrow and use the language, ideas, and evidence each time-->
 - Stronger (often longer) with better supporting evidence and examples, and
 - Clearer with more precise terms and linked, organized, complete sentences.
- 3. Listeners push for clarification & evidence, and offer ideas
- 4. Scaffolds are reduced during the activity.

erstanding Language | restanding Language |

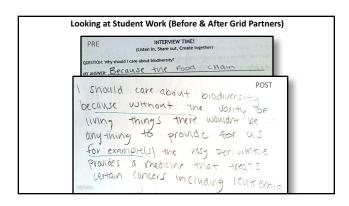


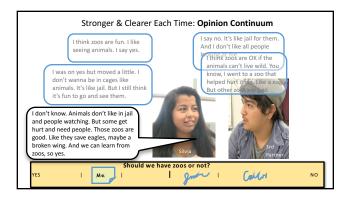


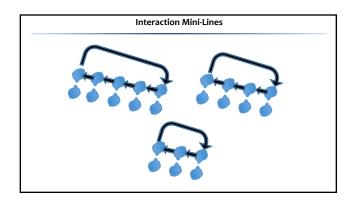


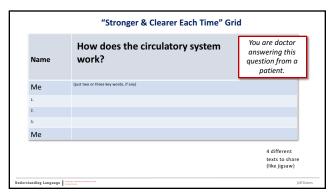


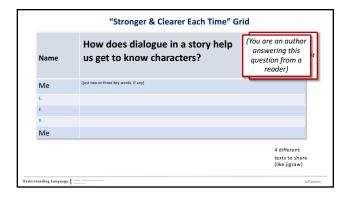


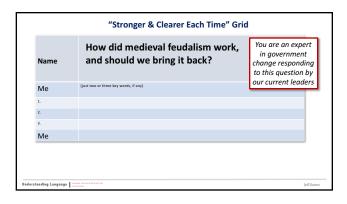


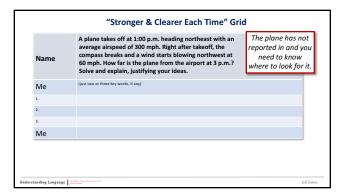


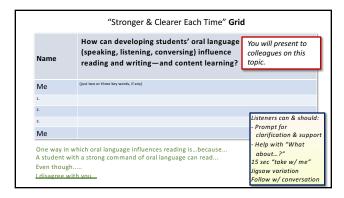












How do Stronger & Clearer Each Time activities

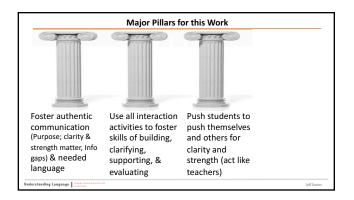
foster these conversation skills?

Speaking Listening Clarifying Supporting Evaluating

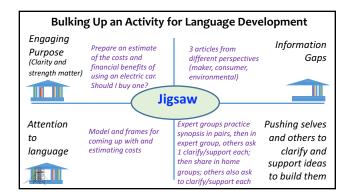
& Language Development Features:



Think about how you might plan using Stronger & Clearer Each Time activities—and/or adaptations to similar activities such as Gallery Walks and Jigsaws in your upcoming units or lessons.

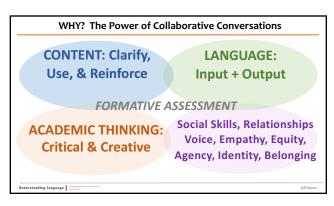


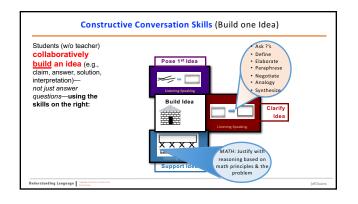


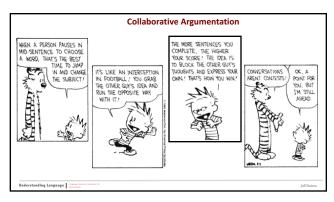


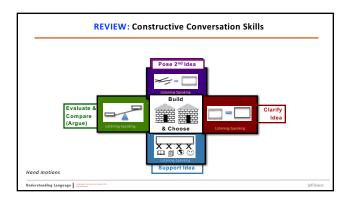


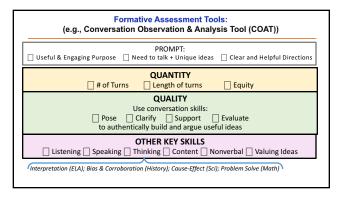






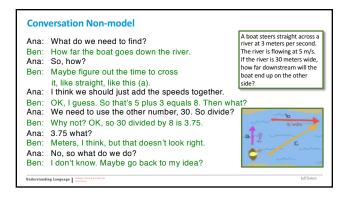




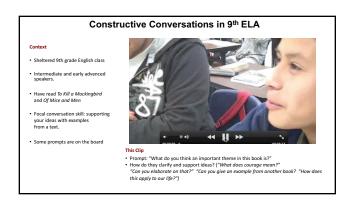


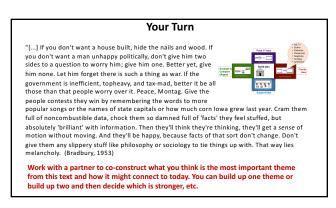
Improving Conversations Laura: I think air has weight. Remember the balloon? Eli: I respectfully disagree with you. Why? Laura: Eli: Cuz I can't feel it. Put your hand out. Do you? Lisa: I think the dog was his best friend in the story. I would like to add to your idea. My dog ran away last year Edgar: and we found him in the park. Lisa: Which park? Edgar: The one by the train station. Lisa: I took a train to San Jose last week.

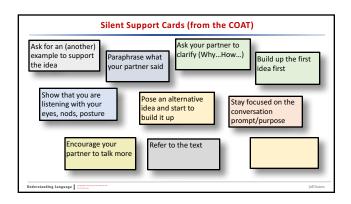


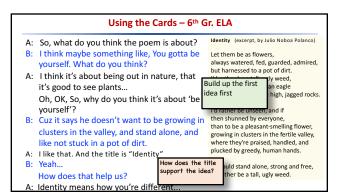


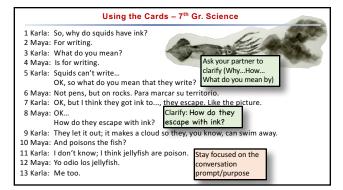














Using the Silent Support Cards

PROMPT: Come to a consensus and a clear explanation of where you think the mass of trees (think Redwoods) comes from. Discuss why many people often get this answer

So where does a tree's mass come from?

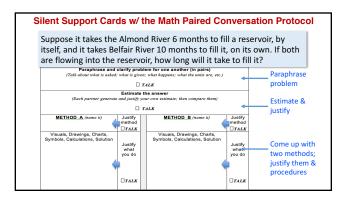
The 1648 potted willow experiment of Johannes Helmont is widely discussed in biology teaching because it is the first known quantitative experiment in biology. He wrote, "But I have learned by this handicraft-operation that all vegetables do immediately, and materially proceed out of the element of water only. For I took an earthen vessel, in which I put 200 pounds of earth that had been dried in a furnace, which I moystened with rainwater and I implanted therein the stem of a willow tree, weighing five pounds; and five years being finished, the tree did weigh 169 pounds. And least the dust that flew about should be co-mingled with the Earth, I covered the lip or mouth of the vessel with an iron-plate covered with tin, and easily passable with many holes. I computed not the weight of the leaves that fell off in the four Autumns. At length, I again dried the Earth of the vessel, and there were found the same two hundred pounds, wanting about two ounces. Therefore 164 pounds of Wood, Barks, and Roots, arose out of water only" (1622). And if the tree is using soil for its mass, then there must be less soil around it. And yet, it turns out that if you ask new Harvard graduates this question, the vast majority of them answer some variant of "It comes from the soil." The answer, it turns out, is blowing in the wind

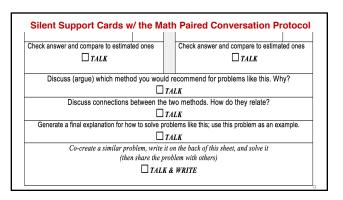
Using the Silent Support Cards

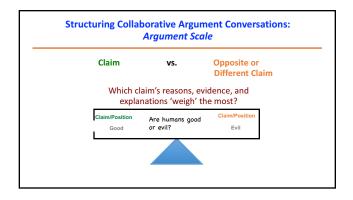
PROMPT: Read the excerpt from Huckleberry Finn (Twain, 1885) and come to an agreement on what the mos important theme in the passage seems to be. Make sure to clarify and support idea(s) along the way as you build or choose your final main theme idea and prepare to present it to others.

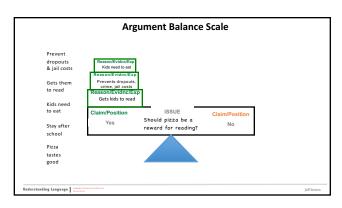
Excerpt from The Adventures of Huckleberry Finn (Twain, 1885)
It made me shiver. And I about made up my mind to pray, and see if I couldn't try to quit being the kind of a boy I was and be better. So I kneeled down. But the words wouldn't come. Why wouldn't they? It warn't no use to try and hide it from Him. Nor from ME, neither. I knowed very well why they wouldn't come. It was because my heart warn't right; it was because I warn't square; it was because I was playing double. I was letting ON to give up sin, but away inside of me I was holding on to the biggest one of all. I was trying to make my mouth SAY I would do the right thing and the clean thing, and go and write to Jim's owner and tell where he was; but deep down in me I knowed it was a lie, and He knowed it. You can't pray a lie-I found that out.

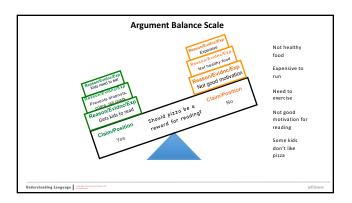
So I was full of trouble, full as I could be; and didn't know what to do. At last I had an idea; and I says, I'll go and write the letter—and then see if I can pray. Why, it was astonishing, the way I felt as light as a feather right straight off, and my troubles all gone. So I got a piece of paper and a pencil, all glad and excited, and set down and wrote:(text continues on handout)

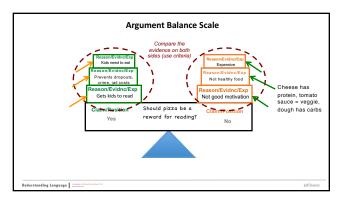


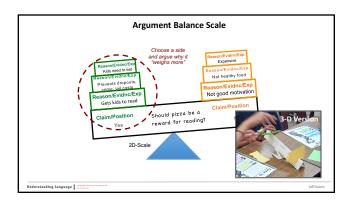


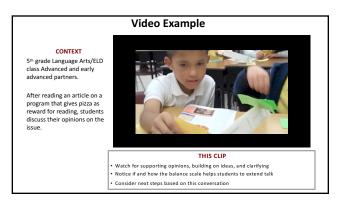












8th ELA - Using the Argument Scale

- A: Why do you think the author wrote this story?

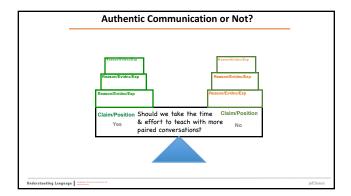
 B: Maybe teach us we should be who we're born to be.
- A: What do you mean?
- B: You know, in the story Charlie wants to be smart, and his operation makes him smarter. But it's not natural. And he wasn't happy, even after he's smart.
- A: Yeah. And he was kinda like a science experiment. I don't think they should experiment on people. It's maybe like when they experiment on animals.
- B: Yeah. It's messed up. What about the other side?
- A: Maybe it's that we can be smart, all of us. And maybe it's OK when science helps? Science helps people be better in lots of ways.
- B: What's an example?
- A: Like drugs. When we are sick, they help cure us. I took pills last year when I had a infection and they made me better.

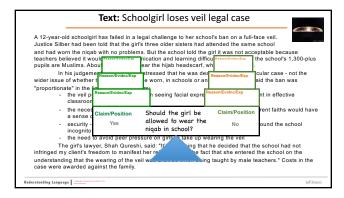
standing Language Transfer to the Control of the Co

8th ELA – Using the Argument Scale

- B: I guess. And I think it's good to see, like, people like him could be smart.
- A: What do you mean?
- B: Like I see people like him, like at school, and I think they're just, I don't know, broken. But inside they're like us. maybe smarter than us.
- A: Maybe, OK, so are we done with both sides?
- B: Yeah. Now we gotta decide which is heaviest.
- A: I can't decide. I don't think it's natural and it was like an experiment on a person//
- B: //But it also, like I said, it helps us see inside people like Charlie
- A: I think the author wanted us to think that more. Maybe it wasn't natural, and that's bad, but the author, I don't know, is, more wants us not to think they're broken. What do you think?
- A: I agree. At the end of the book I thought that a lot more than being mad about the experiment. If he died from that experiment, then it'd be different, but he didn't.
- B: OF

FLOWERS FOR ALGERNON





Text: Schoolgirl loses veil legal case

A 12-year-old schoolgirh as failed in a legal challenge to her school's ban on a full-face veil.

Justice Silber had been told that the girfs three older sisters had attended the same school and had worn the niqab with no problems. But the school told the girl it was not acceptable because teachers believed it would make communication and learning difficult. About 120 of the school's 1,300-plus pupils are Muslims. About half of them wear the hijab headscarf, which is permitted.

In his judgement, Justice Silber stressed that he was dealing with one particular case - not the wider issue of whether the niqab should be worn, in schools or anywhere else. He said the ban was "proportionale" in the light of certain factors:

- the veil prevented teachers from seeing facial expressions - a key element in effective classroom interaction.

- the necessity to enforce a school uniform policy under which girls of different faiths would have a sense of equality and identity

- security - the head teacher had said an unwelcome visitor could move around the school incognitio

- the need to avoid peer pressure on girls to take up wearing the veil

The girl's lawyer, Shah Qureshi, said: "It's surprising that he decided that the school had not infringed my clients' feedom to manifest her religion given the fact that she entered the school on the understanding that the wearing of the veil was allowed when being taught by male teachers." Costs in the case were awarded against the family.

