Accountable Talk in the Science Classroom
Hello!

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If you want them to HEAR it, you talk.
If you want them to LEARN it, THEY TALK.

- Spencer Kagan

Session Goal

To learn strategies for increasing higher order thinking and student engagement through student led discourse in science
Each new strategy will be marked with this symbol. Just for fun, keep track of the number of we share with you.
What does Accountable Talk mean to you?

How do you think Accountable Talk looks in the classroom?
What is Accountable Talk

Accountable Talk is a structure for collaborative conversations. Accountable Talk involves teaching students how to be good listeners and speakers, and using talking stems to guide conversations.
Accountable Talk requires participants to be accountable to the content, the community of learners, and the conversation at hand.
If you want them to talk, give them something worth talking about. Make the talk purposeful!
Science Phenomena

- Short clips
- Pictures
- Models
- Experiments
See, Think, Wonder

NGSS Phenomena
Establishing a Culture of Science Talk
Conversational Norms
The talking circle is important. Students need to be able to make eye contact and use non-verbal forms of communication.

Talking Stems
Talking stems help provide entry points for all learners.

Listen to Learn
Effective communication involves learners listening to learn, not listening just to respond.
Conversational Norms

The talking circle is important. Students need to be able to make eye contact and use non-verbal forms of communication.
Accountable Talk Circle
Talking Stems
Talking stems help provide entry points for all learners.
I disagree with ______ because _______.

Can you specify what you mean by ___?

I agree with ______ because _______.

Can you show your answer in a different way?

Show me your evidence.

I would like to add on to what _____ said about ______.
So what you're saying is...
What did you mean when you said...
I was confused by...
Why do you think that?
I agree/disagree because...
I would like to add...
I wonder...
Listen to Learn

Effective communication involves learners listening to learn, not listening just to respond.
Other strategies to get students talking

- Chalk Talk
- Discussion Diamond
- Claim-Pass
- Agree-Disagree
- Double
- Socratic Circle
The citric acid is what made the balloon pop. The acid

I can conclude that what we saw was a chemical change because the atoms of the balloon were what our group can conclude rearranged.

J. G.

occurred where the citric acid popped the balloon. What we saw was a chemical change where the atoms were rearranged where the balloons original state can't be reformed to a normal balloon.

T. P.
Matter is everywhere. What do you know about matter? Message a friend.

Everything is made up of matter.

Randy: I agree because I learned it in 3rd grade.

I think matter is not food. It’s other things.

Hikaru: I agree with you because matter does not have a color or taste. It is made up of atoms and is not made of food. I know that there are 3 types of matter: solid, liquid, and gas.

Paris: I agree with you because you are right everyone does have matter if I think matter is not anything except for solid, gas, or liquid.
Agree - Disagree
Double Socratic Circle
Accountable talk helps me by:
- Giving everybody a chance to talk
- Feels natural
- Fun
- Helps focus instead of waiting to be called on
- Gets stuff done
Accountable talk helps me by understanding what the teacher is asking us. Also, it gives me more things to think about.
Accountable talk helps me:
- Get new ideas from other people
- Refine my original thinking
- Gain more information
- Add on to old ideas
And of course . . .

Accountable talk helps me talk accountability.
How many new strategies did you count?
Talking Strategies To Take With You...

- Turn and Talk
- See, Think, Wonder
- Grounding Student Thinking
- Accountable Talk Circle
- Talking Stems
- Say More About That...
- Practice with Reluctant Students
- Restate Thinking
- Reroute Questions- “What do the rest of you think about…”
- Feign Confusing
- Chalk Talk
- Discussion Diamond
- Claim-Pass
- Agree-Disagree
- Double Socratic Circle
Special thanks to...

- Lucy West- Metamorphosis Teaching Learning Communities
- Rocky Top Teacher: Accountable Talk Posters/Bookmarks
- STEM Teaching Tools: How can teachers guide classroom conversations to support students’ science learning?
- Kerri Wingert and Abby Rhinehart- How Can I Foster Curiosity and Learning in my Classroom? Through Talk!
Thanks!

Any questions?

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Session
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