Communicating in Scientific Ways



How we figure things out	Symbol	How we communicate
1. Ask why and how questions	?	How come? I wonder Why? How do they know that?
2. Observe		I see I noticed I recorded I measured
3. Organize data and observations	000	I see a pattern I think we could make a graph Let's make a chart
4. Think of an idea, claim, prediction, or model to explain your data and observations	<u>-</u>	My idea is I think that We could draw a picture to show I think it looks like this
5. Give evidence for your idea or claim		My evidence is The reason I think that is I think it's true because
6. Reason from evidence or models to explain your data and observations		The reason I think my evidence supports my claim is because The model shows that

How we figure things out	Symbol	How we communicate
7. Listen to others' ideas and ask clarifying questions	(((C)	Are you saying that? What do you mean when you say? What is your evidence? Can you say more about?
8. Agree or disagree with others' ideas	(g)	I agree with because I agree with you, but I also think I disagree with because I know where you are coming from, but I have a different idea I am thinking about it differently
9. Add onto someone else's idea	$\bigcirc +$	I want to piggyback on April's idea. I want to add to what Jeremiah said.
10. Search for new ideas from other sources		We could get some new ideas from
11. Consider if new ideas make sense	- <u>Ö</u> -	That idea makes sense to me because That idea doesn't make sense because What's their evidence?
12. Suggest an experiment or activity to get more evidence or to answer a new question	II O.	What if we? We could get better evidence if we?
13. Let your ideas change and grow	₹ <u>Ö</u> }	I think I'm changing my idea. I have something to add to my idea.

This content created by the STeLLA project at BSCS Science Learning. Information at bscs.org/stella. Used by permission of BSCS Science Learning. This material is based upon work supported by the National Science Foundation under Award Nos. O310721, O918277, O957996, 1118643, 1220635, 1321242, 1503280, 1725389, and 1813127. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.