

Communicating in Scientific Ways

How we figure things out	Symbol	How we communicate
1. Ask 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		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		My idea is I think that We could draw a picture to show I think it looks like this ___ may be because of ___
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 I think ___ because ___, so ____.
7. Listen to others' ideas and ask clarifying questions		Are you saying that ...? What do you mean when you say ...? What is your evidence? Can you say more about ...? What do you think? Do you agree?
8. Agree or disagree with others' ideas		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 ... Like ___ said, I also think ...
9. Add on to someone else's idea		I want to piggyback on April's idea. I want to add to what Jeremiah said. My partner (or group) pointed out that ...
10. Search for new ideas from other sources		We could get some new ideas from Here's something we can try ... We haven't heard from you yet.
11. Consider if new ideas make sense		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		What if we ...? We could get better evidence if we ...? Maybe we could ... Here's something we can try ...
13. Let your ideas change and grow		I think I'm changing my idea. I have something to add to my idea. Initially ... then ...