# STeLLA: Communicating in Scientific Ways

| What a Scientist Does | Symbol | What a Scientist Says |
|---|---|---|
| 1. Ask why and how questions. |  | How come …?<br>I wonder …<br>Why …?<br>How do they know that …? |
| 2. Observe. |  | I see …<br>I noticed …<br>I recorded …<br>I measured … |
| 3. Organize data and observations. |  | I see a pattern …<br>I think we could make a graph …<br>Let's make a chart … |
| 4. Think of an idea, claim, prediction, or model to explain your data and observations. |  | My idea is …<br>I think that …<br>We could draw a picture to show …<br>I think it looks like this … |
| 5. Give evidence for your idea or claim. |  | My evidence is …<br>The reason I think that is …<br>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 …<br>The model shows that … |
| 7. Listen to others' ideas and ask clarifying questions. |  | Are you saying that …?<br>What do you mean when you say …?<br>What is your evidence?<br>Can you say more about …? |
| 8. Agree or disagree with others' ideas. |  | I agree with ____ because …<br>I disagree with _____ because … |
| 9. Add onto someone else's idea. |  | I want to piggyback on _____'s idea.<br>I want to add onto what _____ said. |
| 10. Search for new ideas from other sources. |  | We could get some new ideas from … |
| 11. Consider whether new ideas make sense. |  | That idea makes sense to me because …<br>That idea doesn't make sense because …<br>What's the evidence? |
| 12. Suggest an experiment or activity to get more evidence or to answer a new question. |  | What if we …?<br>We could get better evidence if we … |
| 13. Let your ideas change and grow. |  | I think I'm changing my idea.<br>I have something to add onto my idea. |