**Asking Testable Questions – Tuesday AM Activity Summary**

1. We started with a Think, Pair, Share activity about: what does “testable question” mean to your students.
2. From there we reviewed differences between questions for an open-ended science investigation to learn new information versus for a science project or concept question to research what has already been determined. We also reviewed what makes questions SMART.
3. We talked through an example of how to offer suggestions of ways for students to refine their questions into something testable by being more specific about where, when, and in regards to what variables they are interested in investigating.
4. We then tasked you to consider a student question with a partner to refine the provided questions posed by the fictional student so that it becomes a testable question. We distributed one “Sample Student Investigation Questions” strip and a “Characteristics of Testable Questions” to each pair, making sure that each question is distributed to two different pairs of participants so that they can compare their suggested revisions.
5. We emphasized that even if you did not know everything about the concepts included in the student question, you could make many recommendations of how to change the question so that it actually would be testable using data.
6. After working on the questions, we shared our and debriefed as a group about the experience:
   1. What strategies/processes will you use to help your students develop their testable questions for the investigations?
   2. Are there are any additional supports that might help your students to ask testable questions?
7. The discussion lead into a brainstorm about how to support students in looking at data to refine their topic area questions down into a testable question that they can actually answer using data.
   1. Participants brainstorm within their table groups and capture ideas on flip chart paper, build off of lists in the lobby (started at breakfast).
   2. At end share out with one another topics they were discussing (first 2 per group and then build from there as time allows)