What Is On this Science & Engineering Practices Poster?

Some teachers find it useful to have the eight science and engineering practices posted in their room.

The photograph to the right shows one such poster you can make using the directions and printable pages in this document.


How Might a Poster Like This Be Useful in My Classroom?

- You could use this poster to identify the focal practices for a given lesson, using magnets.
- The class could use this poster to retrace the history of its work over the past few lessons by drawing interconnected lines on the poster showing the path through the practices the class followed. This can help emphasize the interconnected nature of the practices.
- You can use it as a tool for the class to consider, when you need students to suggest possible next steps and future directions to head in subsequent lessons. For example, you could point to the practices wheel when you are saying things, “It sounds like we have some different models for explaining what causes this phenomenon. What other practices could we use to try to figure out what might be going on?”... or, “Now that we have analyzed and interpreted many pieces of related data, how might we put it all together to try explain this phenomenon?”

How Do I Make the Poster? (Directions)

1. Print the color pages (2-9) of this document on a color printer. OR Print each of the black and white pages (10-19), and then run each single page through a copier to transfer it to colored copy paper, where each paper is a different color.
2. Cut out each petal of the wheel and tape (or glue them) onto a piece of butcher paper as shown in the photo above.
3. Laminate the entire poster.
4. Cut the edges of the wheel off to make the octagon shape above.
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Using Mathematical & Computational Thinking
Constructing Explanations & Designing Solutions
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Obtaining, Evaluating, & Communicating Information

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