Central Bucks Elementary Science Curriculum

SUPPORTED BY

SCIENCE COMPANION

Why Is Science Education Important?

- Science is a cumulative learning process that focuses on process and content
- It captures the natural curiosity of children
- It gives them the language of science and can set the foundation for a life-long interest in the sciences

Why Is Science Education Important?

- It helps us build students' knowledge of scientific techniques on which to build further science-based inquiry…and, maybe, produces future scientists

- It teaches the exciting processes of critical and creative thinking, I.E., Observing, questioning, measuring, discussing, and learning together.

Science Companion believes…

- Young children have inherent abilities to observe the world carefully and draw accurate conclusions about it.
- Elementary teachers can be trained to lead children in the exciting process of science exploration by becoming co-investigators
- The skills a child learns in science exploration are invaluable analytical tools for any discipline

Science Companion…

…learning experience is hands-on

…classroom supports a collaborative learning environment where children work together in groups and share their ideas

…curriculum provides ample opportunities for science to be used in support of mathematics, language arts, art, reading, and writing

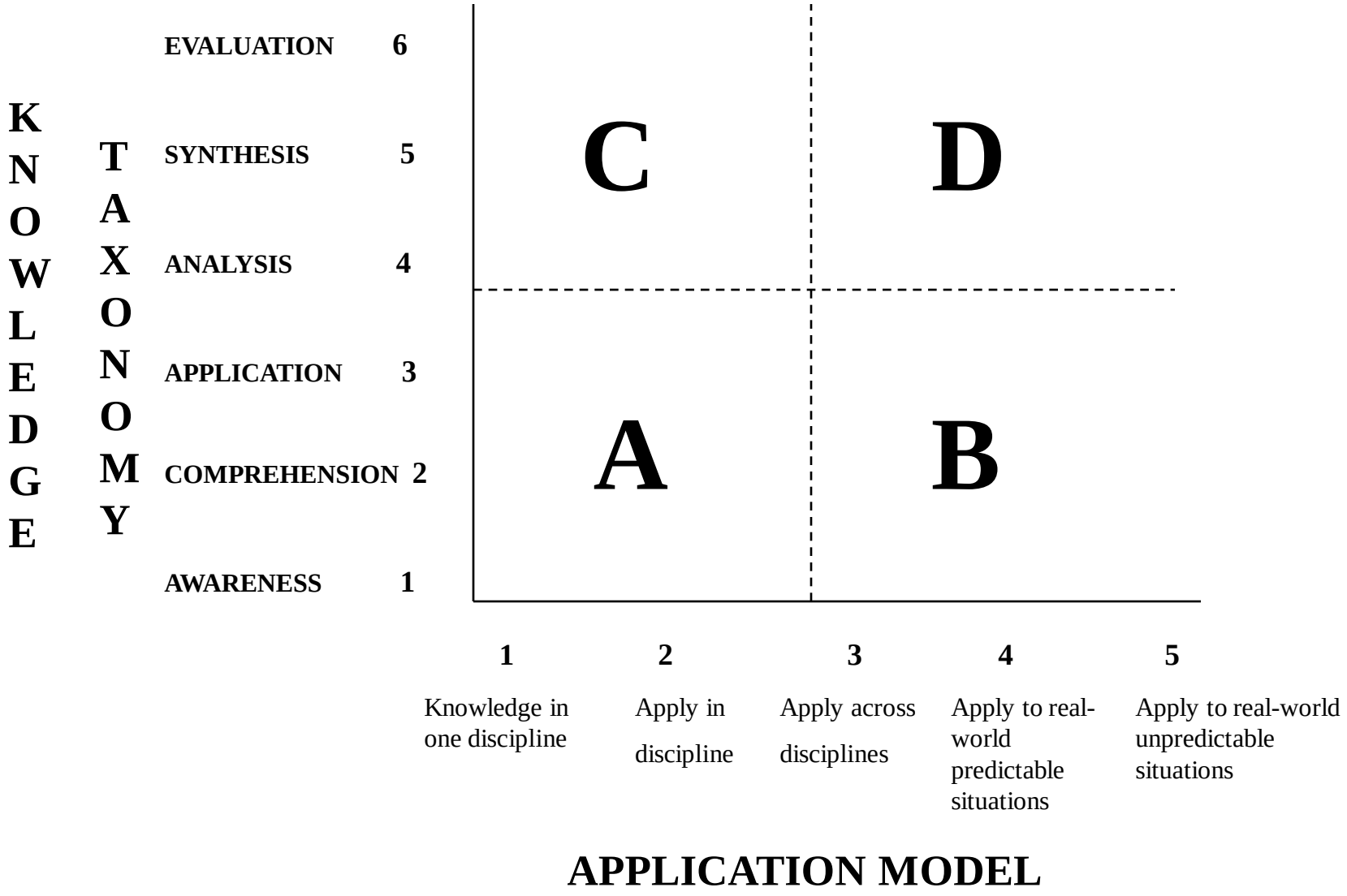
Science Companion…

…teacher is a facilitator for the explorations of the classroom

http://www.sciencecompanion.com/

…teacher provides opportunities for investigation, encourages children to share ideas and ask questions, helps children acquire the practical and thinking skills to delve deeper into an idea or concept http://www.learningscience.org/

Rigor/Relevance Framework



I Wonder: notice, ask questions, state problems: **Awareness**

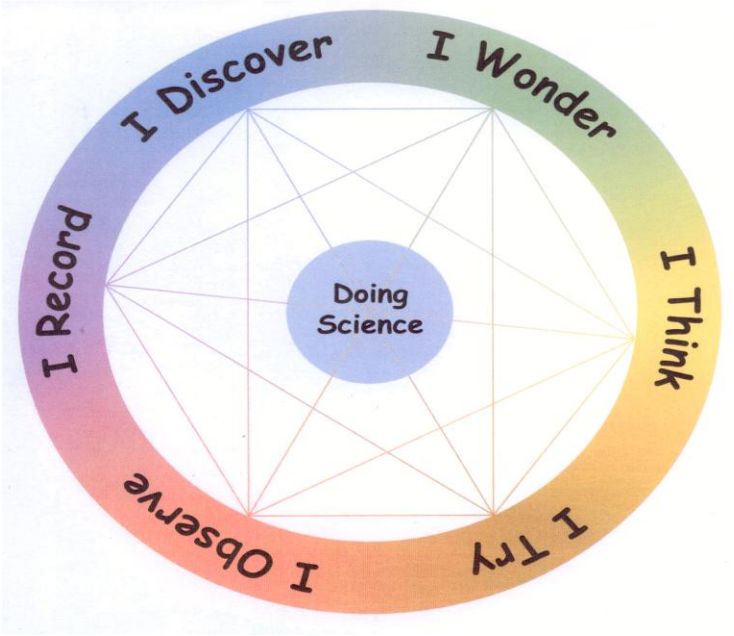
I Think: consider, gather information, predict: **Comprehension**

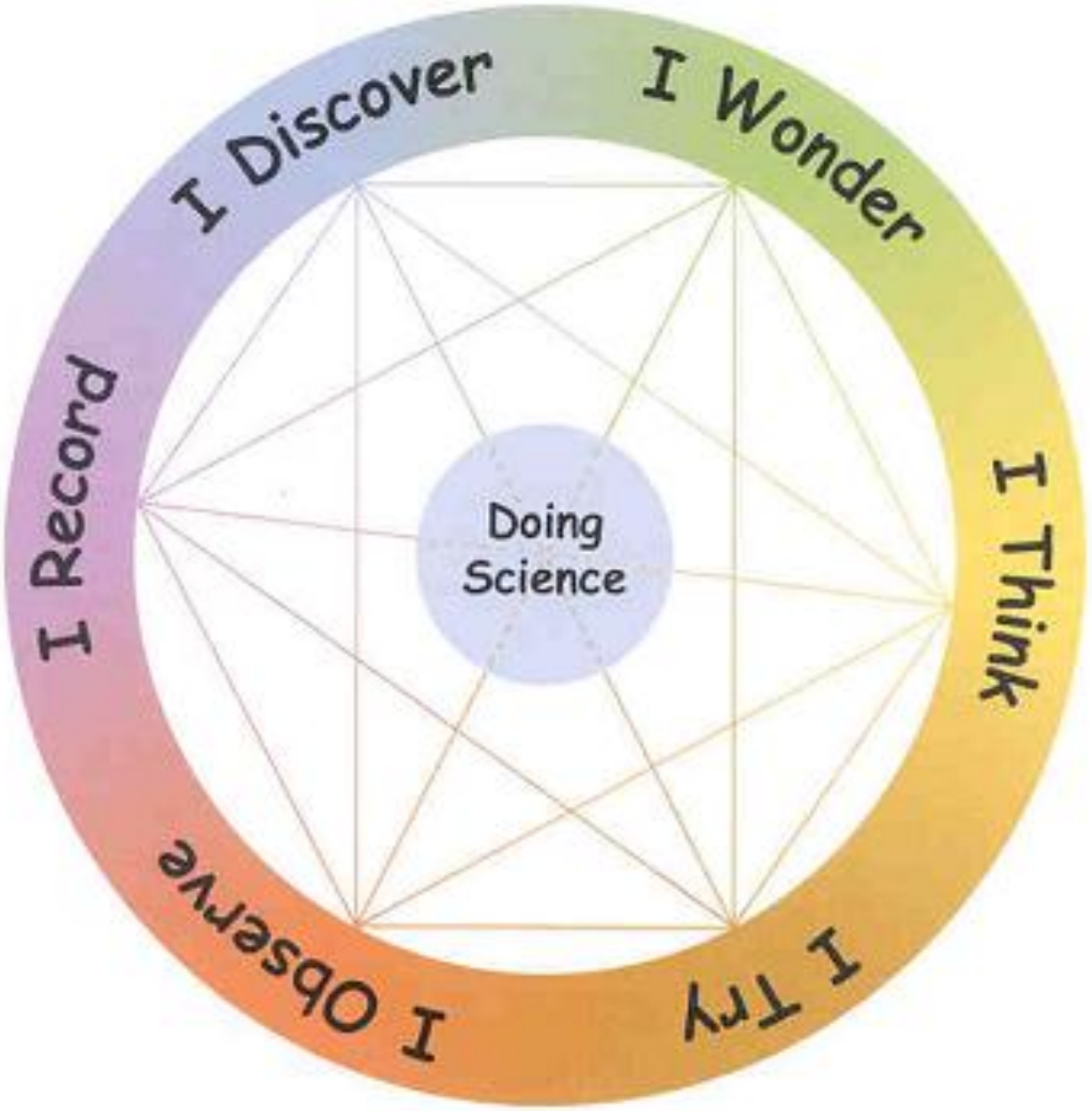
I Try: experiment, model, test ideas, repeat: **Application**

I Observe: watch, examine, measure: **Analysis**

I Record: record data, organize, describe, classify, graph, draw: **Synthesis**

I Discover: look for patterns, interpret, reflect, conclude, communicate discoveries: **Evaluation**

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Doing Science