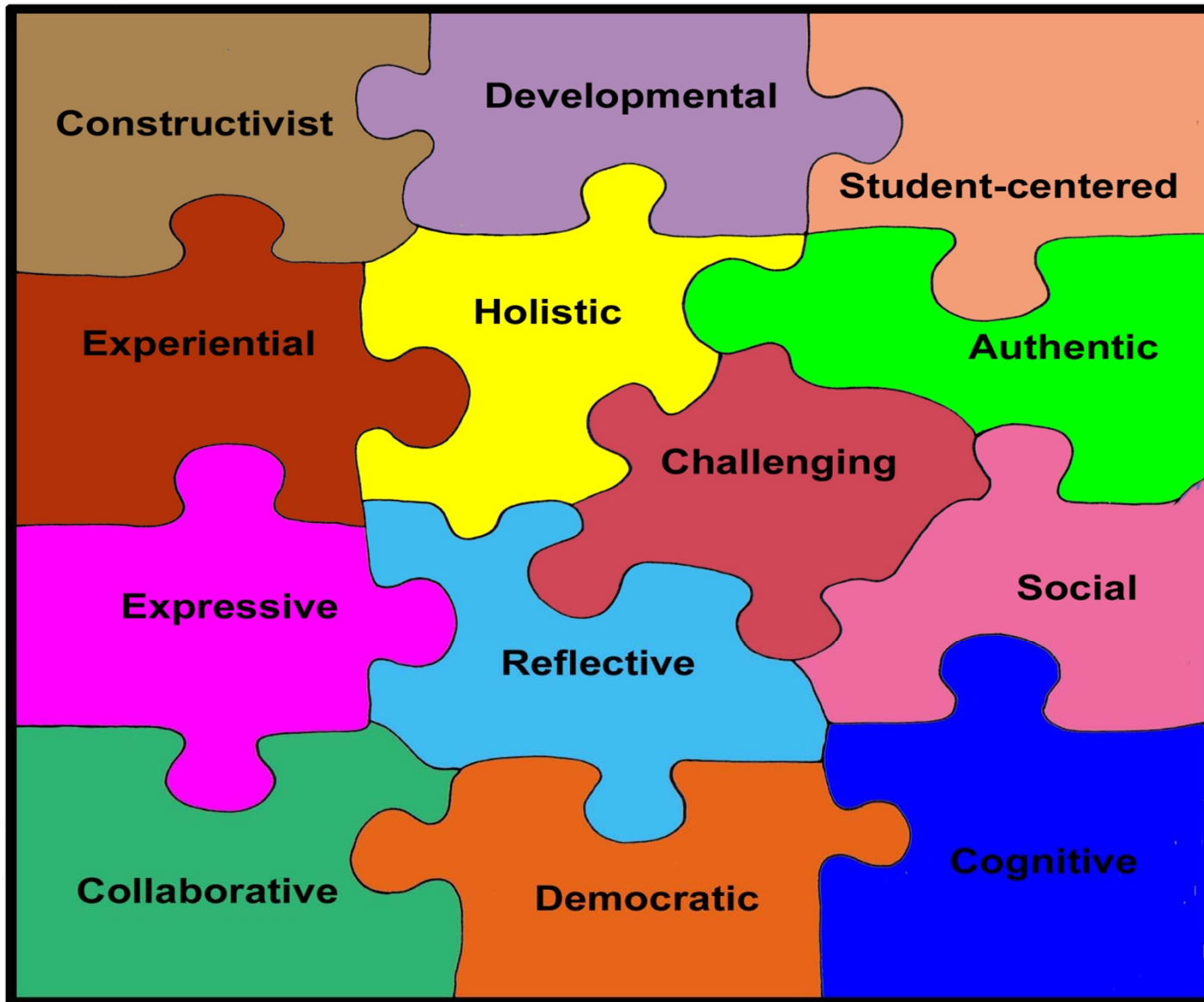A few chemistry modeling teachers…                    Beginning the day -- Two or three items…

# The 13 Principles of Best Practice Teaching:

The goal of learning is the effective use of **concepts**

**Naked numbers** Arithmetic->(merchant) math

**Naked Science** Facts -> everyday use

**Naked words** -> Stories!  Reading with/for meaning

**Naked Dates** -> Stories!   Experiencing experience

**We are all connected! We all are stories….**

# Example: Words -> Concepts

4 steps in understanding...

| Recognition | Definitional |
|---|---|
| Recognizing word when it is heard or read. | Knowing what the word means. |
| **Relational** | **Contextual** |
| Understanding how the word is related to other words. | Being able to use the word in various appropriate contexts. |

How does your "word/idea" fit into modeling?

# 4 steps?