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# The Discovery Process

## Finding concepts at the back door

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## THE DISCOVERY PROCESS

Finding concepts at the back door!

- The Discovery Process is designed to stimulate curiosity, initiative and problem solving and to provide students with a process to understand something new/different.
- The goals for the students are to uncover both the questions and the answers inherent in the object or specimen and to identify an organizing concept relative to the Discovery. All concepts must be supported by research.

### Orchestrating the EIGHT steps

- 1. The ANTICIPATORY SET: sparking curiosity!
- 2. SETTING STANDARDS AND GUIDELINES to guarantee EVERYONE has a positive experience
- 2A Presenting the ITEM

### ● 3. PROVIDING LEAD UP TIME

- This is a time for small group discussion, sharing prior experiences, voicing apprehensions or developing a KWL chart.

- 4. THE EXPLORATION  
They are mentally ready to proceed. Your role is guide on the side
- 5. PROVIDING SMALL GROUP FOLLOW-UP  
Visit with a group and listen to their questions, thoughts and ideas. Acknowledge use of the LIFESKILLS.
- 5A "Purposefully circulate" target groups or individuals to reteach, redirect and/or reenergize. This is teacher time to observe, listen and give immediate feedback when necessary

- 6. CAPTURE THE TEACHABLE MOMENT  
This is when student curiosity is sparked and teachers can enhance learning by their own knowledge base.

Taking advantage of the teachable moments requires a broad knowledge base, willingness to extend learning on the spur of the moment, or even digress when a larger learning opportunity presents itself.

- 7. ASSESSING LEARNING

Because the Discovery Process is so multidimensional, assessment should be also. In addition to checking for content knowledge, we must assess the strength of our students' emotional involvement in the learning. How they feel about the experience determines whether it will be stored in long- term memory.

- 8. ORCHESTRATING OUTREACH

This the purposeful connection of classroom activity to someone or something in the everyday world.

- Outreach provides students with multiple opportunities to inform, request, share, or take action on their learning. This is AUTHENTIC ASSESSMENT.