



# Empowering Our Future Through Inquiry!

John Thomas School of Discovery  
Nixa, MO



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## Ground 0 Learning to Think Differently

*If we teach today as we taught  
yesterday, we rob our children of  
tomorrow.*  
-John Dewey



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Who we are. **INQUIRY**



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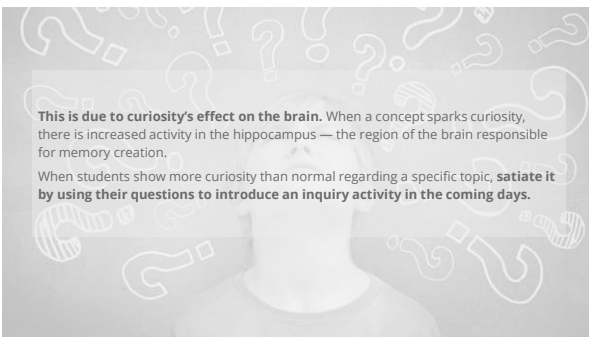
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Just Worms!!!

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# 1

## Step 1 Finding the Phenomenon

*A phenomenon is simply an  
observable event.  
It is interesting, sparks curiosity,  
and can be complex.*



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Suppose you have a balloon and an orange.  
How could you pop the balloon using the  
orange?



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## What Happened?



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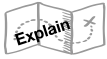
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# Teaching Points



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What can you do with this new knowledge?



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What have we just done? Let's review steps

<p><b>Elicit</b> Extract or draw attention to prior understandings and knowledge. New knowledge is built on existing knowledge.</p>	<p><b>Engage</b> Activities that capture the students' attention, stimulate their thinking, and help them access prior knowledge.</p>	<p><b>Explore</b> Provides students time to think, plan, investigate, and organize collected information.</p>
<p><b>Explain</b> Involves students in an analysis of their exploration. As a result, their understandings are clarified and modified.</p>	<p><b>Extend/Elaborate</b> Gives students the opportunity to expand and solidify their understanding of the concept and/or apply it to a real world situation.</p>	<p><b>Evaluate</b> Occurs throughout the lesson. Consistent use of scoring tools improves learning.</p>

15 Model Expanded

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## Changing Science

How did you feel after the orange and balloon experiment? How did this change your thinking?



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## Step 2 Create the Wonder

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Did you know when you wonder you're learning?

-Mr. Rogers



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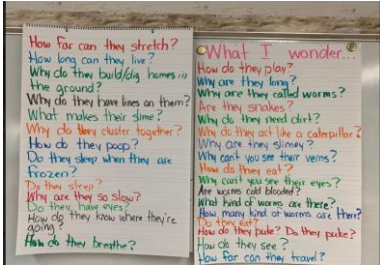
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Taking learning higher



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### Connecting to the Real World - Waves



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### Native Americans



Old Way



New Way



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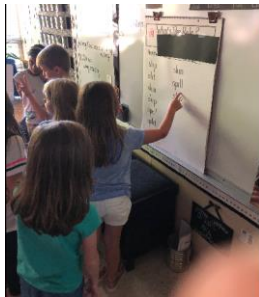
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### A Quick Way to Add Inquiry Into Your Everyday Plans



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### Step 3 What do You Think?

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*To continue toward any journey, we must always challenge ourselves to take the next step.*  
-Scott Kelly



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## Step 4 How Can We Test Our Thinking

*If we teach today as we taught  
yesterday, we rob our children of  
tomorrow.*  
-John Dewey



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## How Can We Test Our Thinking?



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# 5

## Step 5 How Do You Know?

*Take them to court!!!*



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# 6

## Step 6 Thinking Like A Scientist!

*If you've never failed, you've never tried anything new.*  
-Albert Einstein



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Thinking Like a Scientist.....



### STEAM Leader Habits of Mind



S	T	E	A	M
I strive for success when... <ul style="list-style-type: none"> <li>I am ready to learn.</li> <li>I take care of myself.</li> <li>I keep trying and giving my best.</li> </ul>	I take responsibility when... <ul style="list-style-type: none"> <li>I think before I act.</li> <li>I own my actions.</li> <li>I am honest.</li> </ul>	I encourage respect when... <ul style="list-style-type: none"> <li>I use my strengths to work with others.</li> <li>I listen to understand.</li> <li>I use my social skills.</li> <li>I stay positive.</li> </ul>	I act safe when... <ul style="list-style-type: none"> <li>I look out for others.</li> <li>I am in control of myself.</li> <li>I follow directions.</li> <li>I think before I act.</li> </ul>	I make learning count when... <ul style="list-style-type: none"> <li>I think about my thinking.</li> <li>I give my best effort.</li> <li>I participate.</li> <li>I am respectful.</li> </ul>

#### Failure Friday

How are you going to look at failure?

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### Be a Molly

We As A Class...

- 1. Have a Vision
- 2. Be a Learner
- 3. *Lean* into **STRUGGLE**
- 4. Feed your Passion
- 5. Own your Education



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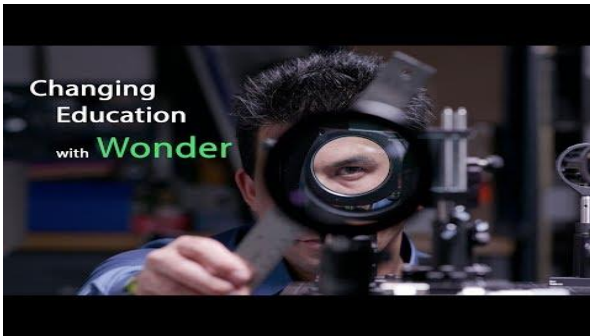
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