

Name \_\_\_\_\_ Date \_\_\_\_\_ Section \_\_\_\_\_

Text / Chapter \_\_\_\_\_

# K-W-L & The More You Know

ThinkSheet for Activating Prior Knowledge & Building Schema

Adapted from Ogle (1986)

BEFORE		BEFORE		AFTER	
K	What I KNOW	W-N	What I WANT/NEED to know (These become your purposes for reading.)	L	What I LEARNED
1. Do a preview. 2. List here everything you know or think you already know about this topic.	3. List here what you want or need to know about this topic.	5. List here what you learned that you did not know before, the answers to what you want/need to know.			
W-M		W-M		W-M	
I WANT to know MORE than the text provides. Search beyond the text.		I WANT to know MORE than the text provides. Search beyond the text.		I WANT to know MORE than the text provides. Search beyond the text.	
DURING Reading		AFTER Reading		AFTER Reading	
4. While reading, list here what you realize you want/need to know that the text does not provide.		6. Now that you have finished the text, list here what else you want/need to understand that the text does not provide.		6. Now that you have finished the text, list here what else you want/need to understand that the text does not provide.	

Record **KWL & The More You Know** on your Reading Log: the BEFORE line (K & W-N), the DURING line (W-M), and the AFTER line (W-M & L).

Reflect in the right-hand column about how this strategy helped you construct meaning.

**K-W-L & The More You Know**

ThinkSheet for Activating Prior Knowledge &amp; Building Schema

BEFORE		BEFORE	AFTER
K	W-N	L	What I LEARNED
<p><b>What I KNOW based on my preview &amp; prior knowledge.</b> (These become your purposes for reading.)</p> <p>1. Do a preview. 2. List here what you know or think you already know about this topic.</p> <p><u>Glia</u> - 10 times as many as neurons → <b>what is their function?</b></p> <p><u>Protein</u> - important for good health</p> <p>My 8th grade science fair project was on osmosis so I did not mention anywhere in a chapter on membranes! <b>why is osmosis not mentioned chemically speaking? proteins, chemically speaking?</b></p> <p><u>diffusion and permeability of membranes</u> → <b>How do diffusion &amp; permeability work w/in the neuron cell?</b></p> <p><u>Electrons &amp; electricity - asper.</u> → <b>How do electrons work in the chemistry and physics of the neuron cell?</b></p> <p><u>daily use + Thomas Edison</u> → <b>Does it pull things across the membrane?</b> → <b>What does it do?</b></p> <p><u>Potassium</u>. I've heard of it. → <b>Is it a salt?</b></p> <p><u>Axon</u> → <b>I know messages move up and down the axon</b> → <b>What makes this work?</b></p> <p>"Why" neuronal membrane at rest</p> <ul style="list-style-type: none"> <li>• <b>what are the parts of this membrane?</b></li> <li>• <b>what does the membrane do?</b> Why is it important?</li> </ul> <p>(I have much to learn!)</p>	<p><b>What I WANT/NEED to know</b></p> <p>3. List here what you want to know or need to know about this topic.</p> <p>→ <b>why is osmosis not mentioned chemically speaking? proteins, chemically speaking?</b></p> <p>→ <b>How do diffusion &amp; permeability work w/in the neuron cell?</b></p> <p>→ <b>How do electrons work in the chemistry and physics of the neuron cell?</b></p> <p>→ <b>Does it pull things across the membrane?</b> → <b>What does it do?</b></p> <p>→ <b>Is it a salt?</b></p> <p>→ <b>What makes this work?</b></p> <p>Are chemical reactions happening?</p> <p>• <b>why "neuronal membrane at rest"</b></p> <p>• <b>what are the parts of this membrane?</b></p> <p>• <b>what does the membrane do?</b> Why is it important?</p>	<p>5. List here what you learned that you did not know before, the answers to what you wanted to know.</p> <p><u>ion - an atom or molecule that has lost or gained one or more electrons &amp; so has acquired a positive charge.</u></p> <p>Ions make possible the chemical reactions needed for transmitting messages for equilibrium. → <b>the push for equilibrium.</b></p> <p>Electrical signals flow down the axon because of chemical reactions across membranes by way of protein channels. → <b>These regulate drift/husion of a farrie</b></p> <p>A bi-layer forms a barrier to water ions. Heads face outward (ions+polarized tails face inward (water insoluble))</p> <p>• <b>How are protein channels highly selective?</b></p> <p>• <b>Why are protein channels so important for electrical current to flow across the membrane?</b></p>	<p><b>W-M</b> → <b>What if my questions were not answered, why off in later chapters,</b></p> <p>I WANT to know MORE than the text provides. Search beyond the text.</p> <p><b>DURING Reading</b></p> <p>4. While reading, list here what you realize you want/need to know that the text does not provide.</p> <p><u>I can tell the authors assume I know what this is and why ions are essential.</u></p> <p><u>I went to an online dictionary. Went to an online encyclopedia.</u></p> <p><b>AFTER Reading</b></p> <p>6. Now that you have finished the text, list here what else you want/need to understand that the text does not provide.</p> <p>• <b>How are protein channels highly selective?</b></p> <p>• <b>Why are protein channels so important for electrical current to flow across the membrane?</b></p>

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Reflect in the right-hand column about how this strategy helped you construct meaning.