Using Foldables® in the Classroom

Dr. Michele R. Staples
TAMU-CC
Foldables® are 3-dimensional, interactive graphic organizers that were created by educator Dinah Zike over 30 years ago.

Students create interactive graphic organizers with main ideas to the front and supporting details to the back in order to interact with information to gain a better understanding of the content.

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“Encourage student ownership of study material, provide a kinesthetic component to teaching strategies, and promote long-term retention of academic lessons” (Casteel & Narkawicz, 2006, p. 6)
“Foldables® would be considered a cognitive learning strategy.

Cognitive strategies are used to:
- Make specific connections between new and old learning
- Highlight important information while reading
- Chunk information into parts
- Classify and categorize information
- Etc.
“Foldables® result in student made study guides that are compiled as students listen for main ideas, read for main ideas or conduct research” (Casteel and Narkawicz).
- Abstract information in a Concrete Format
- Relationships made between facts and concepts
- New info is connected to previous knowledge
- Thoughts are organized for writing and problem solving
According to Marcia Tate (2010) “The Best Classrooms are ones where students are actively engaged in the learning.” She encourages teachers to use Graphic Organizers, Semantic Maps, and Word Webs to help facilitate active engagement.
Foldables®
Replace teacher generated writing with student generated writing.
English Learners are able to use pictures and words

- Communicate with peers/teacher
- Help organize information
- Connect new material to prior knowledge
- Show complex relationships
- Clarify concepts with few words
- Convey ideas and understanding
- Provide a visual summary of information

(Tate, 2010)
Research States...

Graphic organizers represent a form of nonlinguistic representation and are one of the most popular ways teachers can have students represent the knowledge that they have experienced. (Marzano, 2007, P.52)
Research states...

Graphic organizers enable English Learners to organize words and ideas in a way that helps them see patterns and relationships in ...(Coggins, Kravin, Coates, & Carrol, 2007).
At risk students often do not learn words indirectly because:

- They don’t engage in conversation as often
- They don’t alert to new or interesting words
- They often don’t listen carefully when read to
- They usually don’t read on their own

We **MUST** find ways for students to interact with words.
Graphic organizers address both the right and left hemispheres of the brain, benefiting all students. The left hemispheres can add the language information and the right hemispheres can illustrate the major concepts (Jensen, 2007).
ELPS –

Learning Strategies 1.C - Use strategic learning techniques such as concept mapping, drawing, memorizing, comparing, contrasting, and reviewing to acquire basic and grade-level vocabulary.

Listening 2.C - Learn new language structures, expressions, and basic and academic vocabulary heard during classroom instruction and interactions.

Speaking 3.D - Speak using grade-level content area vocabulary in context to internalize new English words and build academic language proficiency.

Writing 5.B - Write using newly acquired basic vocabulary and content-based grade-level vocabulary
Strategy Teaching

Foldables are considered to be a teaching strategy.

- Teaching Strategies must be taught.
- Teaching Strategies must be reinforced.
Strategy Teaching in Five Steps

- **Introduce** the strategy
- **Identify** the strategy by name and explain its use
- **Demonstrate** how it is to be used
- Give students time and opportunity for **practice**
- **Discuss** effectiveness and application to other tasks.
ELL Teachers can Adapt Foldables to Fit...

- SQ4R – Survey-Question – Read-Recite-Record-Review.
- PARS – Preview – Question – Read – Summarize
- STAR – Stop – Think – Act – Review
- KWL+
- ETC.
Dinah Zike's two latest books, Notebook Foldables® and Foldables®, Notebook Foldables®, & VKVs for Spelling and Vocabulary 4th - 12th have been judged top classroom picks in the 17th annual Learning magazine Teachers' Choice Awards.

http://www.dinah.com/
MATERIALS NEEDED

Colored paper
Scissors
Glue
STAPLES
Step Book

Flip Book: For organizing large amounts of information

**HOW TO MAKE A STEP BOOK**

a) Overlap three sheets of paper, leaving a one-inch margin at the bottom of each page.

b) Hold the pages securely so they remain overlapped. Fold the top portion of the three sheets together to form a step-like appearance.

c) Staple the top part to hold the sheets together.

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Vocabulary Strategy

- Write the word (can be creative)
- Define the word (in your own words)
- Draw a picture
- Use the word in a sentence

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Layered Step Book

ESL Programs

- Transitional Bilingual Education
- Maintenance Bilingual Education
- Immersion Education
- Two-Way Immersion Programs
- Newcomer Programs
- Sheltered English (SDAIE)
- What is ESL Pullout?
- English Language Development
- Structured English Immersion

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Math

Liquid Measure

eight gallons
Grammar
Geography

- TN
- FL
- TX
- MS
- NY
- IN
- IL
<table>
<thead>
<tr>
<th>Planet</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>Jupiter</td>
</tr>
<tr>
<td>Venus</td>
<td>Saturn</td>
</tr>
<tr>
<td>Earth</td>
<td>Uranus</td>
</tr>
<tr>
<td>Mars</td>
<td>Neptune</td>
</tr>
</tbody>
</table>
Venn Diagrams

Step 1

Step 2

Step 3

Step 4

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Let’s make this foldable. There is a template in your folder.
Brainstorm with your tables how you can use this Venn Diagram Foldable.
Venn Diagram Example

- Life in the Past
- Both
- Life Today
Students can Use Foldables® to Illustrate Cause and Effect

Encourage students to add personal opinions or observations when appropriate.

List causes and effects, then write a paragraph or sentences summarizing a specific cause and effect.
Let’s make this foldable.
There is a template in your folder.
  → Fold paper in half. Cut on middle like until you get to the fold.
## Cause and Effect Two Tab Foldable

<table>
<thead>
<tr>
<th>Cause</th>
<th>Effect</th>
</tr>
</thead>
</table>

- How would you use this foldable in your classroom?
Cause and Effect Example

CAUSES

BIOLUMINESSENCE

EFFECTS
Cause and Effect Examples

- Volcanic Eruptions: Causes
- Why leaves change color: Effects
• Let’s make this foldable.
• There is a template in your folder.
• Fold paper in half. Cut on middle like until you get to the fold.
A Three Tab

Great for any concepts with Three:
- Beginning, Middle, end
- First, next, last
- Character, Setting, Problem & Solution
- Etc.

You can also make Four Tab, Five Tab, Six Tab, etc....
Think/Pair/Share: How could you adapt this Foldable for your grade level and content area?
Multi-Tab Foldables

My Favorite Foldable to use with students!

Vocabulary Foldable

1. Fold a sheet of notebook paper in half like a hot dog.
2. On one side, cut every third line. This usually results in ten tabs (cut every 4th or 5th line if less tabs are needed)
3. Label the tabs.

Example of when to use it:
- Vocabulary word on the front, definition or illustration inside
- Math fact family on the front, illustration/computation inside
- etc
### Tab Book with Science Definitions

<table>
<thead>
<tr>
<th>Picture or Example</th>
<th>Definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hypothesis</td>
</tr>
<tr>
<td></td>
<td>Conclusion</td>
</tr>
<tr>
<td></td>
<td>Inference</td>
</tr>
<tr>
<td></td>
<td>Quantitative</td>
</tr>
</tbody>
</table>

- **Hypothesis:** A prediction or conjecture, often based on evidence, that can be tested through investigation.
- **Conclusion:** The final statement of the result of an investigation, experiment, or study.
- **Inference:** The process of reasoning or deriving logical conclusions from evidence or facts. It involves making an educated guess or hypothesis based on available information.
- **Quantitative:** Pertaining to quantities; dealing with or expressing a number or measure.
Tab Book with Idioms

SP: A donde fueres haz lo que vieres.
TR: Wherever you go, do what you see.

SP: Beben agua en el mismo jarrito.
TR: They drink water from the same little jug.

SP: Cada quien tiene su manera de matar pulgas.
TR: Each has his way to kill fleas.

SP: Caras vemos, corazones no sabemos.
TR: Faces we see, hearts we don’t know.

SP: Entrada de caballo y salida de burro.
TR: Enter on horseback, exit on a burro.
Tab Book / Education Content

- Receptive Oral Vocabulary
- Productive Oral Vocabulary
- Dolch List
- Content Area Words
- Contextual Redefinition

- Word Cards
- Word Wall Dictionary
- Working with Idioms
- Word Wheels
- Word Wizard
Shutter Folds

- Begin as if you were going to make a hamburger but instead of the creasing the paper, pinch to show the midpoint.
- Fold the outer edges of the paper to meet at the pinch, or mid-point, forming a shutter fold.
Shutter Fold – Tab Book with Bloom’s
Circular Tab Book with Court Cases
Other Foldables
WORD WHEEL

said

exclaimed whispered
replied stated
answered declared
yelled murmured

SYNONYMS
Envelope Folds
Foldables® provide a plethora of creative outlets for students to present projects, research, experimental results, and inquiry based projects.
Let’s Review! Foldables

- Ascertain initial understandings
- Build factual knowledge through schema, building dendrites!
- Encourage metacognition through active learning
- Foster HOTS
How Can YOU USE Foldables?

- English language learners
- Students with IEPs
- Projects
- Displays
- Ultimate Foldables™ to assess

- For Open House Projects
- For Science Fairs
- For Math Nights
- For EVERYTHING

BUT MAINLY – TO REPLACE WORKSHEETS!

Because Worksheets DON’t Build Dentrite’s!

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Assessment Ideas Using Foldables®

- Rubrics
- Tests based on information
- Writing samples for LPAC
- Journals
- Oral Questioning (SOLOM)
- ELPS – Proficiency Levels

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Tate, M. L. (2010). *Reading and language arts: worksheets don't grow dendrites*. Corwin.

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VKV Boogie Video Link

http://www.youtube.com/watch?v=xudikERRmRc
VKV’s with word Families

One piece of paper = four words = many opportunities to interact with words.

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VKVs (visual kinesthetic vocabulary) are amazing tools that you can use to teach:

- rimes,
- onsets,
- antonyms,
- analogies,
- homographs,
- homophones,
- dictionary skills,
- syllables,
- prefixes,
- suffixes,
- root words,
- and more.

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