THE ESSENTIAL SCIENCE NOTEBOOK

STRATEGIES ◆ ACTIVITIES ◆ RESOURCES

Assessment Information and Resources
Sections for CEA, TCT, and SSA that give teachers an understanding of their purpose in instruction and assessment

Easy-to-use tools to improve science instruction and assessment

www.kasc.net  859-238-2188  kasc@kasc.net
The following activities are just a few that can support students’ understanding of new vocabulary; particularly, the science vocabulary in this section. Another easy-to-use resource is 101 Strategies to Make Academic Vocabulary Stick by Marilee Springer. ASCD books. 2017. ASCD also has a free webinar with Marilee available through their website ascd.org.

Encoding Activities
Piquing With Puzzles — To get students interested in a word, display a graphic or picture cut as puzzle pieces. Throughout the day remove a piece at a time revealing part of the written word. By the time all of the image puzzle pieces are removed, students will see the whole word written underneath. Students will be interested to learn the word and be making predictions as to the word as they see different parts.

Animato — Use this website, animato.com, to create video clips to introduce new vocabulary. You can search for music, videos, and photos, plus add your own text. By engaging students quickly, the terms are more likely to be stored in memory. Students can also create their own videos.

Vocabulary Notebook — Entries in a binder can organize new vocabulary and give students a place for reference. Consider a graphic organizer or standard content that includes the following:
- Word
- If it is related to... (subject, topic, etc.)
- In my own word, it means...
- Class definition
- Drawing or graphic representation
- Example/non-example

<table>
<thead>
<tr>
<th>Words</th>
<th>Descriptions</th>
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<tbody>
<tr>
<td>Kinetic energy</td>
<td>energy produced by motion</td>
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| Speed of an object | how fast something is moving; distance traveled divided by elapsed time | EX: miles per hour
| Stimuli | events or occurrences in the environment of an organism that influence its behavior |
| Biodiversity | the variety of life in the world or in a particular habitat or ecosystem |
| Biological components | the living things that shape the ecosystem | EX: plants and other organisms |
| Ecosystems | all populations living together and the physical parts of the environment with which they interact |
| Physical components | soil, water, air, temperature, and sunlight (SWATS) |

Vocabulary Resources
Engaging strategies to teach vocabulary so students are committing terminology to long-term memory

CD with a complete list of science vocabulary

Instructional ideas that align with brain research