

Why Teach Vocabulary?

- There is a direct link from vocabulary knowledge to comprehension of reading (Beck& McKeown)
- The amount of words acquired from context depends on the amount of text read and the ability of the child to read it. (Kuhn & Stahl, 1998)
- A good reader will learn up to five times more words than a struggling reader (Kuhn & Stahl, 1998)
- Culturally, vocabulary knowledge and usage is an indicator of intellectual ability

Vocabulary Instruction:

- Should be active
- Should be engaging
- Should help students make connections to what they already know
- Should make links between related concepts
- Should include multiple repetitions
- Should build student independence
- Should be in their hands and in their mouths

Differentiating Word Study - The Vocabulary Connection!, Ellen A Thompson, Imc





Every day, students struggle to learn the academic vocabulary that they need to understand in order to succeed in school.



Content Academic Vocabulary System eases the struggle and provides the solution to the successful acquisition of Math academic vocabulary.





- Research Based
- Systematic, Hands-on Instructional Approach
- Differentiated Instruction
- Success on the TEST
- Flexible & Easy to use



Research Based

- Vocabulary Acquisition
 - Isabel Beck
 - Robert Marzano
- Sheltered Instructional Operational Protocol
- National Literacy Panel on Language-Minority Children and Youth
- Efficacy study utilizing CAVS



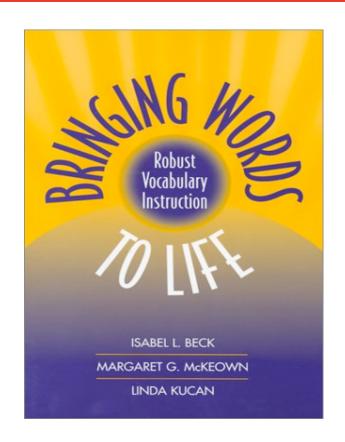


Valuable Resources

Bringing Words to Life: Robust Vocabulary Instruction

Isabel Beck, Margaret G. McKeown, & Linda Kucan

Guilford Press





Bringing Words to Life

- The first tier consists of the most basic words clock, baby, happy, walk, and so on.
- The second tier contains words that are high frequency for the mature language users and are found across a variety of domains.
- The third tier is made up of words whose frequency of use is quite low and often limited to specific domains.



Bringing Words to Life

- Young children's listening and speaking competence is in advance of their reading and writing competence.
- As children are developing their reading and writing competence, we need to take advantage of their listening and speaking competencies to enhance their vocabulary development.

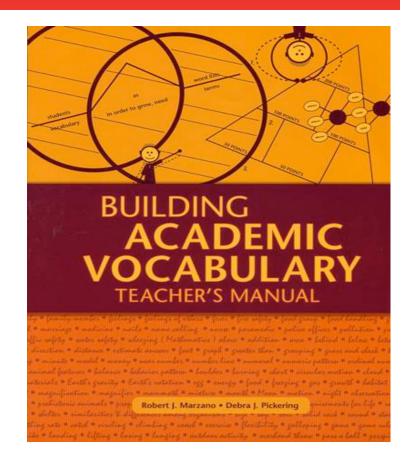


Valuable Resources

Building Academic Vocabulary: Teacher's Manual

Robert J. Marzano & Debra J. Pickering

ASCD





Systematic, Hands-on Instructional Approach The "5E" Model





Systematic, Hands-on Instructional Approach

A Picture is Worth 100 Math Vocabulary Words

STEP 1: ENGAGE



















Systematic, Hands-on Instructional Approach

STEP 2: EXPLORE







Is It Relevant? 3 Write ircle the irrelevant information

4 Observe and Evolore



Differentiated Instruction

STEP 3: EXPLAIN (K-2)





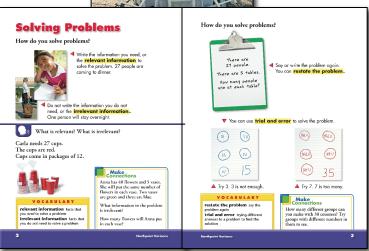


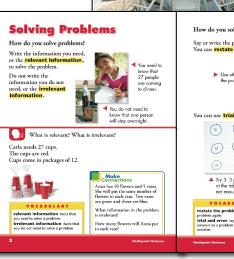
Differentiated Instruction

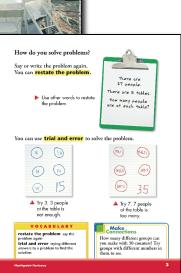
STEP 3: EXPLAIN (3–5)









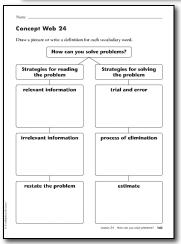


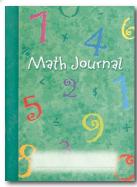


Systematic, Hands-on Instructional Approach

STEP 4: ELABORATE











Success on the TEST

STEP 5: EVALUATE

How can	you solve pro	oblems?
Fill in the senten	ces with words fi	om below.
1. When you	the	answer, you make
a guess.		
2. Information that	doesn't help you s	olve the problem
 When you use the choices that do remainders 		, you cross off
4. Information that is	when y	a problem rou try different numbers
estimate	irrelevant	relevant
trial and error	process of	r



Draw a line to connect each voc	abulary word with its definition.
I. relevant information	a. trying different answers to a problem to find the solution
2. irrelevant information	b. facts needed to solve the problem
3. restate the problem	c. a way to cross out answer choices that are not the solution
4. trial and error	d. facts not needed to solve the problem
5. process of elimination	e. to say the problem again
5. estimate	f. to make a good guess



Systematic, Hands-on Instructional Approach



How can you solv

Concept Poster 8 and Math Vo Cards 114-119 Whole group activity

Build Background

Show students side A of card 114 (relevant inf to find a similar image on the poster (the girl card 114, image side out, in the pocket closes kind of information does the girl need to solve a sentence on side A of the card. Repeat with c information), card 116 (restate the problem), card 118 (process of elimination), and card 11 Ask students the following questions:

- How can you restate the girl's problem?
- . Is the number of people coming for dinner re
- Is the woman staying the night relevant infor . Can you estimate the number of chairs neede
- · How can you solve a problem using trial and

Explore and Learn Inquiry Activity Small group activ

Model the Activity

- . Place the materials for Activity Placemat 2 copies of Activity Record Sheet 24 (p. 142)
- · Model the correct pronunciation for each (index cards, number cubes, spinner, opera Have students repeat the words.
- . Read the steps of Activity Placemat 24 (Is
- . Guide students as they work in small grou and Activity Record Sheet 24. Explain that problems that include both relevant and in
- . Have student partners complete the Now

Discuss the Activity

Invite students to discuss the activity and cor . How can you decide what information is rele a mablem?

- . How can restating the problem help you solen
- . What are some strategies that you can use to

Vocabulary Word Wall Place these words on the Word Wall

relevant information irrelevant information restate the problem, trial and error, process of elimination, estimate

Have students copy the words in their Math Journals, Next, have students draw a picture to illustrate each word and write a sentence using each word. Photocopy and post examples of the students' illustrations and sentences below the appropriate words on the Word Wall.

For Spanish-speaking students, it may be helpful to post this cognate chart to show similarities between vocabulary words in Spanish and English, Keep in mind that students have varying literacy levels in Spanish, and some may not be familiar with these words.

Cognates		
English	Spanish	
relevant	información	
nformation	relevante	
irrelevant	información	
information	irrelevante	
process at	proceso de	
elimination	eliminación	
estimate	estimación	

Math Content Picture Dictionary

For students needing additional help with vocabulary words, refer them to the Math Content Picture Dictionary

Explain Concepts and V

Reader Cards A and B Whole group and paired activities

Build Background

Review the Concept Poster 8 activity from the E

- · How can relevant information help you solve a . Restate the problem on the poster. What is the or
- How can you use trial and error to solve this or
- · How can you use the process of elimination to so

. How can you estimate how many people will be Read the Reader Cards A and B

- Distribute copies of the Reader Cards to stude Card A to Beginning/Emerging English learn Intermediate/Expanding English learners and
- . Direct students' attention to the title of the ca Have students repeat the words. Then ask str answers to the title question. Encourage stude vocabulary words in their answers.
- Have students preview the pictures in the Res what they see, Ask; What strategies do you like
- . Then have students read the Reader Card alou with a partner. Vary the groups and partners provide broad conversation practice for Engli new English speakers may be able to read only
- · Encourage students to check one another's co. responding to the questions or prompts locate
- Circulate among students, guiding them and as needed.

Make Connections

- · Direct students' attention to the Make Conn students to work with their partners to discu prompts, or to complete the activities.
- Suggest that students use their Math Journal or observations.

Elaborate

Concept Web Paired activity

Distribute copies of Concept Web 24 (p. 143). Have each student work with a partner to complete the concept web. For students needing additional help with the web, refer them to the Concept Poster 8, Math-Vocabulary Cards 114-119, and Reader Cards A and B. When students have finished, ask volunteers to share and talk about their completed webs.

Radius™ Math Vocabulary Cards

Small group activity

Have students use the Radius* Audio Learning System and Radius Math Vocabulary Cards 114-119 to practice listening to, reading, writing, and speaking each vocabulary word. Then have students complete one or more of the following activities in their Math Journals:

- · Have students write and solve a story problem that contains irrelevant
- Have students solve a story problem by using trial and error and process of climination

Evaluate

Transparency 24 Whole group activity

Assess Vocabulary Knowledge

Use side B (the definition side) of the Math Vocabulary Cards 114-119. to review the lesson vocabulary words. Then distribute a copy of Transparency 24 to each student. Have students cut out the vocabulary words at the bottom of the page and place them in the correct boxes. Model the task for them by using Transparency 24. Invite volunteers to read each sentence.

Lesson Review 24 Individual activity

Assess Concept Knowledge

Distribute copies of Lesson Review 24 (p. 144). Read the directions aloud and verify students' understanding. For students whose literacy skills in English are emerging, consider reading the sentences aloud. When students have finished, review the entreet answers,

Home Connection

Send the completed copy of Activity Record Sheet 24 (p. 142) home with each student to share with his or her family:



Send a second copy of Transparency 24 home with each student for extra review and practice. Encourage students to work with family members to cut out and place vocabulary words in the appropriate places on the transparency copy. Students can use the transparency copy to review vocabulary words throughout the school year.







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Success on the TEST







