

## Cracking the Academic Code: Expanding Opportunities for English Language Learners

### The “Big Picture”

**Goldenberg (2008) – Based on 2007 National Assessment of Educational Progress (NAEP) Report**

“...fourth-grade ELLs scored 36 points below non-ELLs in reading and 25 points below non-ELLs in math. The gaps among eighth-graders were even larger—42 points in reading and 37 points in math.”

“Whatever the explanation for these achievement gaps, they bode ill for English learners’ future educational and vocational options.”

“They also bode ill for society as a whole, since the costs of large-scale underachievement are very high” (p. 11)

**Chall (2000) – on “Preventing the Fourth-Grade Slump”**

“Students seem to need three kinds of strengths in order to progress to Stage 3 [Reading to Learn]: sufficient knowledge of the meanings of more academic and abstract words, sufficient reasoning ability to understand the more difficult texts, and facility with reading skills—word recognition, and decoding, and fluency” (introduction)

**Academic Vocabulary**



**Academic Reading**



**Academic Success**



**Economic Opportunity**

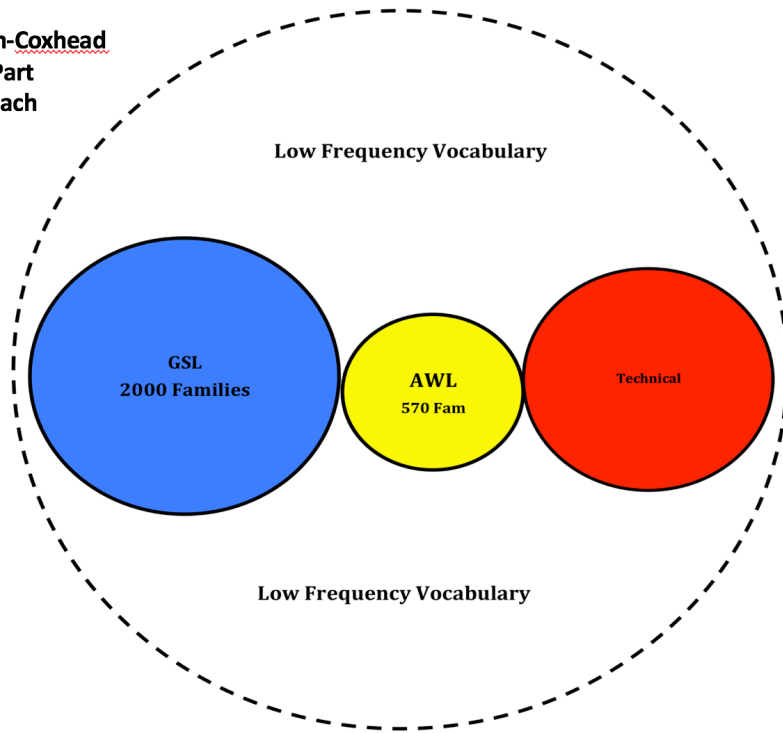


**Societal Well-Being**

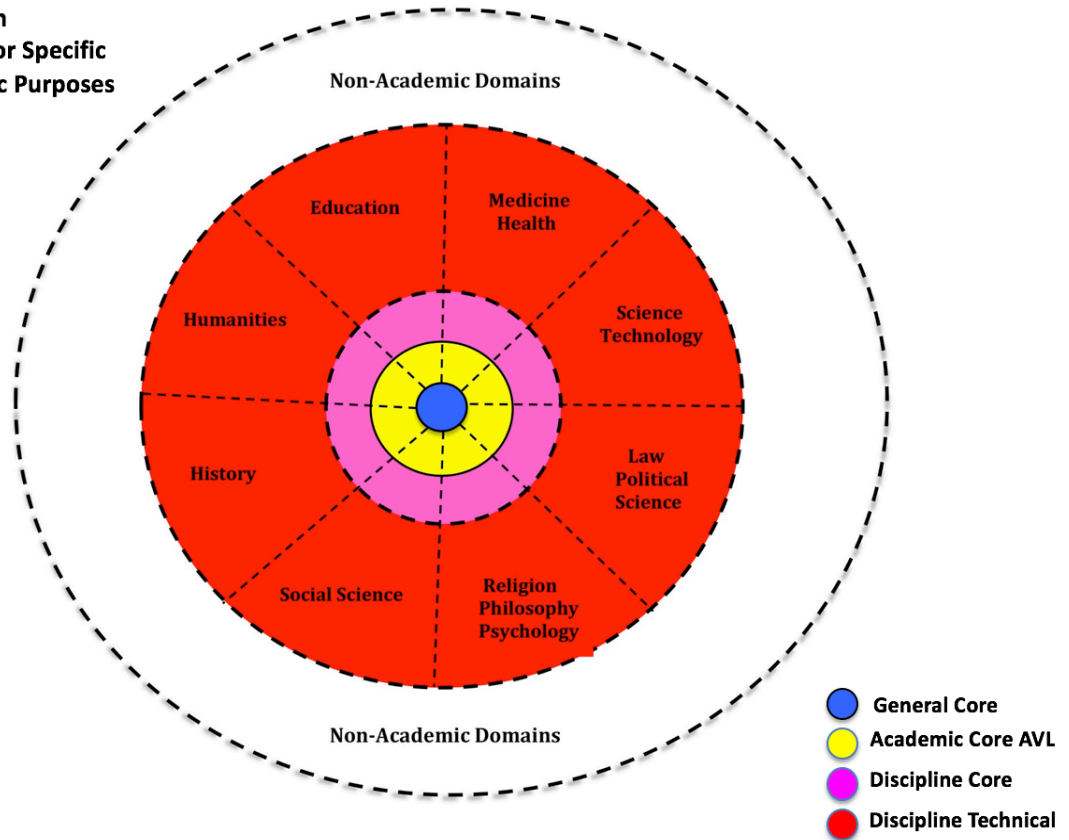
## Academic Vocabulary Levels

Academic Core (AVL)	Discipline Core	Discipline Technical
Cross-Discipline	Discipline-Specific from General Core	Discipline-Specific
<u>Multi-Disciplinary Words</u>  study (n) group (n) system (n) social (j) provide (v) however (r) research (n) level (n) result (n) include (v) important (j) process (n) use (n) development (n) data (n) information (n) effect (n) change (n) table (n) policy (n) university (n) model (n)	<u>Science*</u>  star (n) species (n) plant (n) scientist (n) surface (n) earth (n) software (n) forest (n) sun (n) fish (n) planet (n) temperature (n) soil (n) camera (n) fuel (n) speed (n) universe (n) sky (n) file (n) drive (n) engine (n) moon (n)	<u>Science</u>  genome (n) gravitational (j) reactor (n) extinction (n) watershed (n) supernova (n) aquatic (j) photon (n) terrestrial (j) latitude (n) polar (j) composting (j) larva (n) stellar (j) biomass (n) neutron (n) light-year (n) geometry (n) neutrino (n) chromosome (n) geological (j) semiconductor (n)

**Nation-Coxhead  
Four-Part  
Approach**



**Gardner & Davies  
Approach  
English for Specific  
Academic Purposes**



- General Core
- Academic Core AVL
- Discipline Core
- Discipline Technical

WORD AND PHRASE . INFO
DAVIES | BYU | COCA

FREQUENCY LISTS - [ANALYZE TEXTS](#) | ALL GENRES - [ACADEMIC](#) LOG IN [HELP](#)

ENTER TEXT BELOW
-SAMPLES-
MY TEXTS

All living things have some ability to maintain a stable internal environment. The inside of an organism is separate and different from the outside world. Maintaining that separation and difference is known as homeostasis. For example, many animals work hard to keep their temperature within a certain range. If the animal gets too hot or too cold, it will die. As a result, many animals have evolved behaviors that

WORD

PHRASE

Select individual words in the text to see "word sketches"

All living things have some **ability** to **maintain** a **stable internal environment**. The inside of an **organism** is **separate** and different from the outside world. **Maintaining** that **separation** and **difference** is **known** as **homeostasis**. For **example**, many animals work hard to keep their **temperature within** a certain **range**. If the animal gets too hot or too **cold**, it will die. As a **result**, many animals have **evolved behaviors** that **regulate** their **internal temperature**. A **lizard may stretch** out on a sunny rock to **increase its internal temperature**, and a **bird may** fluff its feathers to **stay warm** (Figure 2 .2). **Mammals** and **birds** are **homeotherms**—meaning they **maintain** the same **temperature** most of the time. A **lizard** or an **earthworm** is a **heterotherm**, **meaning** its **temperature** can **change**. **Humans** and other **mammals may** deliberately do things to **stay warm** or to **cool** off, like lie down under a shady tree. But most **mammals maintain** a steady **temperature primarily** through **unconscious processes**. A portion of your **unconscious** brain **regulates** your body **temperature**. If you get too **warm**, you start to **sweat** and the **blood vessels** in your **skin** open up to let the **blood flow** to the **surface** of your body. If you are too **cold**, you start to shiver and the **blood** supply to your **skin**, hands and **feet may** be **reduced**. There are many **forms** of

CLICK TO SEE ENTRIES FOR

RANGE (EXACT)
NOUN (973)
VERB (1874)
PHRASE
(HELP)

**SYNONYMS** (click to see) [?]

SEE ALSO:

- span**
- 1225 scale
- 1768 extent
- 1679 limit
- 3126 scope
- 3572 reach
- 5789 span
- 9548 breadth
- 9620 radius
- variety**
- 630 choice
- 718 series
- 836 sort
- 973 range**
- 1046 collection

**RANGE** *n* (#973, ACAD FREQ 22219) (HELP)

	HIS	EDU	SOC	LAW	HUM	PHIL	SCI	MED	BUS
CLICK BAR TO LIMIT									
PER MILL	0.6	1.4	1.2	0.5	0.8	0.5	1.8	1.6	0.3
SEE MORE	<b>1545</b>	<b>2054</b>	<b>3604</b>	<b>1130</b>	<b>1571</b>	<b>1297</b>	<b>7637</b>	<b>2796</b>	<b>585</b>

**DEFINITIONS** (WORDNET) (BAD ENTRY?)

(5/9) **1.** an area in which something acts or operates or has power or control: "the range of a supersonic jet" **2.** the limits within which something can be effective **3.** a large tract of grassy open land on which livestock can graze **4.** a place for shooting (firing or driving) projectiles of various kinds **5.** a series of hills or mountains

**COLLOCATES** (click to see with RANGE)

**adj** wide, broad, full, normal, narrow, whole, entire, limited, dynamic, diverse **noun** age, motion, score, temperature, species, size, option, mountain, price, frequency **verb** cover, extend, fall, expand, span, encompass

CLICK WORD TO:  SEARCH AS COLLOCATE  QUERY THAT WORD [?]

	DISCIPLINE		SORT	SORT	SORT
1	SCI	) debt ratio : total assets divided by <b>total</b> debt (	range	<b>1</b> to <b>3</b> )	# (2) cash flow : income
2	PHIL	life-changing . It appears that we may <b>have</b> underestimated the	range	<b>and</b> <b>depth</b> of	information available within us , the number of ways
3	SCI	AVS300W two-speaker and subwoofer set <b>had</b> limited <b>treble</b>	range	<b>and</b> <b>dull-sounding</b> <b>bass</b>	. Sidebar TECH TREND Sidebar The
4	SCI	chips that help marry the speed of machine <b>computing</b> with the	range	<b>and</b> <b>flexibility</b> of	animal computing . Scientists are beginning
5	SCI	displays because traditionally LCDs have trailed <b>CRTs</b> in the	range	<b>and</b> <b>precision</b> of	color they produce . Our in-depth comparisons
6	SCI	in tow , pre-configure ZoneAlarm for all <b>the</b> <b>network</b> address	ranges	<b>and</b> <b>subnets</b> you	want it to accept . Your home and office

\*Inputted sample from middle school life science text, retrieved from <http://www.ck12.org/life-science/>