

Discovering the Hidden Treasure of Morphology

Grades K-5



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Morpheme Match Session Starter

As soon as you are seated and settled, begin using the base words, root words and affixes at your table to **collaboratively** create as many words as you can as a team.

Record your words on Handout #1 Morpheme Match.

Consider all the ways this activity could impact student learning.







Objectives

KExamine the progression of morphology from kindergarten to grade 5 in the Foundations, Communication and Vocabulary strands of the B.E.S.T. English Language Arts (ELA) Standards. Line of the B.E.S.T. ELA Standards related to morphology instruction. Curate 3 evidence-based activities aligned to the progression of the morphology benchmarks and instructional best practices.



Handout #2 Morphology and Related Academic Vocabulary

What is morphology?

Having a common understanding of **academic language** is essential to explicit instruction.

Work with a partner. Use the **glossary** beginning on **page 212** in the *B.E.S.T. ELA Standards* book to fully define morphology and key related terms.

How can the glossary impact instructional practices and student learning?

Morphology is the system of Word forming
elements and <u>processes</u> in a language. It is also the
knowledge of meaningful <u>WOrd</u> <u>parts</u>
in a language including <u>prefixes</u> , <u>suffixes</u>
and base words. These morphemes are the smallest
meaningful units in a writing system. An
affix is a letter or group of letters
added to the beginning (prefix) or end
(suffix) of a word to change its
is the part of the word that <u>Cannot</u> be
broken down . It stands on its own as a
word. A root is a <u>WOrd</u> or <u>part</u> of a
word from which other words are obtained by adding a prefix
or suffix.



Why should we teach morphology?

The Reading Rope (Hollis Scarborough, 2001)

Language Comprehension





Why should we teach morphology?



Why should we teach *morphology*?

Why should we teach morphology *explicitly*?

It is important to teach phonological awareness, phonics, **morphology** and etymology (history of origin), syntax, text reading fluency, vocabulary, semantics, and written expression in an **explicit**, **sequential**, **systematic**, and **cumulative** manner.

-B.E.S.T. ELA Standards Book page 206



Morphology in the Vocabulary Strand



ELA.5.V.1.2	Apply knowledge of Greek and Latin roots and affixes, recognizing the connection between affixes and parts of speech , to determine the meaning of unfamiliar words in grade-level content.
ELA.4.V.1.2	Apply knowledge of common Greek and Latin roots, base words, and affixes to determine the meaning of unfamiliar words in grade-level content.
ELA.3.V.1.2	Identify and apply knowledge of common Greek and Latin roots , base words, and affixes to determine the meaning of unfamiliar words in grade-level content.
ELA.2.V.1.2	Identify and use base words and affixes to determine the meaning of unfamiliar words in grade-level content.
ELA.1.V.1.2	Identify and use frequently occurring base words and their common inflections in grade-level content.
ELA.K.V.1.2	Ask and answer questions about unfamiliar words in grade-level content.

B.E.S.T. ELA Standards page 24





Handout #4 Morphology in the Vocabulary Strand





Appendix D: Vocabulary pages 199-203

Morphology Resources in Appendix D

		eek and Latin Roots					Morpho Base Wo								
	rade Sample List		Free	for 2nd grade											
Root	Meaning	Examples		Origin	clos			answer							
ant, anti	against, opposed to, preventative	antagonist, antibiotic		Greek	do give hap			break button connect							
aqua	water	aquarium, aquatic		Latin	help			equal		6					
aud	to hear	audiobook, audience		Latin	jum kind			fair follow							
auto	self	autobiography, autograph	- 2	Greek				hand know	. 🔪 (201					
bio	life	biology, biography	1.1	Greek	pacl	5		learn		9					
cent	one hundred	century, percent		Latin	play ride			obey point	3	(may)					
chron	time	chronological, chronic		Greek	talk teac	h		see thought							
cir/circum	around	circumference, circumstance,	circular	Latin	wall			try		19					
duc/duct	lead, make	deduce, produce, educate			Common Pro	Rese	7			- W					
famm	change	formation, format	Prefix		Definition	Examples	Suff	x Part of Speech	Common Suffixes	Examples					
form	shape	formation, format	anti-		against	antibiotic, anticlimax	-able, -ibi		is; can be	collectable, gullible					
geo	earth	geography, geology	auto-			autograph, autobiography	-age -al, -ial	noun adjective	result of an action; collection having characteristics of	manage, acreage circumstantial seasonal					
oroph	write	autograph graphic			two	bicycle, binocular	-dm	noun	one having a certain skill,	American, electrician					
graph	white	autograph, graphic	de-		opposite	devalue, dehumidify			relating/belonging to						
hetero	different	heteronym, heterogeneous	dis-		not, opposite of	detach, deploy	-ate -ed	verb verb/adjective	to make, have, become past tense verbs; adjectives	differentiate, duplicate accomplished, accepted					
		,, , ,	en-, em-	- cause to before, front of		empower, entangle	-ea	noun/adjective	made of	hydrogen, mistaken					
homo	same	homonym, homogenous	fore- in-, im-, il-	ir.	not	forecast, foresee impossible, innocent	-ence, -an	in the second	act; condition of	excellence, importance					
logy	study of	biology, zoology	inter-		between, among	international, interject	-ent, -ant	noun	an action: condition: causing a specific action	student, contestant					
		63, 62	micro-	-	small	microscope, microwave		noun	one who; action or process; more	teacher, boxer					
mal	bad	malfunction, malpractice, mal	mid		middle	midway, midday	-est	adjective	the most	coldest, largest					
meter/metr	measure	thermometer, perimeter	mis-		wrongly	misunderstand, misconduct	-ful	adjective	full of having characteristics of	beautiful, hateful historic, asymmetric					
metermen	and a state of the second s		multi-		many, much	multicolor, multipurpose	-ies	noun	plural, more than one	parties, babies					
micro	small	microscope, microphone	non-		not	nonsense, nondescript	dfy	verb verb	to make, have, become	amplify, justify					
mono	one	monologue, monotonous	oct		eight	octopus, octagon	-ing -ion, -tion	noun	verb forms: present participles act: process	belping, running confusion, inspection					
and a second second			over- poly-		over, too much many, much	overall, overworked polygon, polymer	-ation.								
multi	many	multimedia, multitask	pre-		before	prevent, preview	-ish -ist	adjective	like; similar the person who is	childish, bookish lovalist, nutritionist					
ohoto	light	abatagraph abatagrathesis	quad-		four	quadrilateral, guadrant	-ity, -ty	noun	state of	responsibility, specialty					
photo	light	photograph, photosynthesis	re-		again	rebuild, recall	-ive, -ativ	adjective	adjective form of nonn	active, comparative					
port	to carry	import, transportation	semi-	-	half, partly, not fully	semicircle, semiformal	-itive	werb	to make: to cause to become	cntucize, apologize					
Second Second	and another a first state of the		sub-		under	submarine, subconscious	-less	adjective	without	helpless, effortless					
scope	viewing instrument	microscope, telescope	tele		far, distant	telephone, television	-logy, -ol	gy noun	science of; study of	biology, archeology					
spect	to look	inspection, spectator	trans-		across, change, through		-ly-	adverb	how something is state of being; act of	fluently, briefly payment, employment					
			super-		above, beyond	superhuman, superficial	-ness	noun	state of condition of	sickness, wilderness					
tele	far off	television, telephone	trans-		across three	transcontinental, translucent tripod, triangle	-ous, -cos	s, adjective	having qualities of	courageous, gracious					
vid/vis	to see	visual, video	un-		not, opposite of	unable, unhappy	-10115	noun	more than one	books, boxes					
	10, 20,3		uni-		one	unicycle, unicom	ship	noun	the state of being something	friendship, leadership					
			under-		under, too little	underground, undercurrent		adjective	characterized by	cloudy, thirsty					





Handout #5 Morphology in the Communication Strand

Morphology in the Communication Strand

Conventions Proc	Tess	iop	hv	Gra	de l	eve	J						
Conventions Progression by Grade Level Standard Introduction Level Symbol													
The skill has not been introduced.									_	Sym			
The skill is introduced.									_	I	-		
The skill is mastered.									-	M	-		
								lear de		R	-		
The skill should be reviewed as students	encou	inter	and	crea	te m	ore o	omp	lex te	XI.	ĸ			
		-	-			-	-	-	-				
Skill	K	1	2	3	4	5	6	7	8	9	10	11	12
Begin each sentence with a capital letter and use	I, M	R	R	R	R	R	R	R	R	R	R	R	R
ending punctuation.											-		
Capitalize the days of the week, the months of the year, and the pronoun I.	I, M	R	R	R	R	R	R	R	R	R	R	R	R
Form regular plural nouns orally by adding /s/ or		10	-		-			-	-		-	-	
/es/.	I, M	R	R	R	R	R	R	R	R	R	R	R	R
Use interrogatives to ask questions.	I, M	R	R	R	R	R	R	R	R	R	R	R	R
Capitalize proper nouns.	I	М	R	R	R	R	R	R	R	R	R	R	R
Form and use simple verb tenses for regular verbs by adding the affix -ed.	Ι	М	R	R	R	R	R	R	R	R	R	R	R
Form plurals -y to -ies.	-	1	м	R	R	R	R	R	R	R	R	R	R
Form and use complete simple sentences.	I	М	R	R	R	R	R	R	R	R	R	R	R
Use possessives.	I	М	R	R	R	R	R	R	R	R	R	R	R
Use subject-verb agreement in simple sentences.	I	M	R	R	R	R	R	R	R	R	R	R	R
Conjugate regular and irregular verb tenses.	-	I	Ι	M	R	R	R	R	R	R	R	R	R
Form and use regular and frequently occurring													
irregular plural nouns.	-	I	I	М	R	R	R	R	R	R	R	R	R
Form and use the past tense of frequently occurring	-	I	I	М	R	R	R	R	R	R	R	R	R
irregular verbs. Use apostrophes to form contractions.	-	I	M	R	R	R	R	R	R	R	R	R	R
Use interjections.	-	I	M	R	R	R	R	R	R	R	R	R	R
Appropriately use pronouns.	-	I	M	R	R	R	R	R	R	R	R	R	R
Use commas in a series.	-	I	M	R	R	R	R	R	R	R	R	R	R
	-	I	M	R	R	R	R	R	R	R	R	R	1000
Use phural possessives.	-	-			R	R	199	R	R	R	R	R	R
Maintain consistent verb tense across paragraphs.	-	-	I	M	R	R	R	R	R	R	R	R	R
Form and use irregular plural nouns.	-	-	1	M	ĸ.	ĸ	ĸ	R	ĸ	ĸ	ĸ	ĸ	ĸ
Form and use the progressive and perfect verb tenses.	-	-	Ι	М	R	R	R	R	R	R	R	R	R
Use simple modifiers.		-	I	М	R	R	R	R	R	R	R	R	R
Use prepositions and prepositional phrases.	-	-	I	M	R	R	R	R	R	R	R	R	R
Form and use compound sentences.	-	10	I	M	R	R	R	R	R	R	R	R	R
Use quotation marks with dialogue and direct							10			-	-		
quotations.	-	1	I	M	R	R	R	R	R	R	R	R	R
Use commas to indicate direct address.	-	1	I	Μ	R	R	R	R	R	R	R	R	R
Use subject-verb agreement with intervening	-	-	-	I	М	R	R	R	R	R	R	R	R
clauses and phrases.			-	-									
Produce complete sentences, recognizing and correcting inappropriate fragments and run-ons.	-	-	I	I	М	R	R	R	R	R	R	R	R
and the change of the other	-	-											

									-				
						_	-		-				
Skill	K	1	2	3	4	5	6	7	8	9	10	11	12
Use conjunctions.			-	I	Μ	R	R	R	R	R	R	R	R
Use principal modals to indicate the mood of a verb.	-	-	-	I	I	М	R	R	R	R	R	R	R
Use appositives, main clauses, and subordinate clauses.	+	1	11	I	I	М	R	R	R	R	R	R	R
Recognize and correct inappropriate shifts in tense and number.	+	-	-	(1)	I	М	R	R	R	R	R	R	R
Use conjunctions correctly to join words and phrases in a sentence.	-	-	-	4	I	М	R	R	R	R	R	R	R
Use verbals including gerunds, infinitives, and participial phrases.	-	-	-		I	I	М	R	R	R	R	R	R
Use comparative and superlative forms of adjectives	-	-	-	-	-t	I	М	R	R	R	R	R	R
Use pronouns correctly with regard to case, number, and person, correcting for vague pronoun reference.	-	-	-	-	I	I	м	R	R	R	R	R	R
Appropriately use colons.	-	1	-	-	-	-	Ι	Μ	R	R	R	R	R
Appropriately use ellipses.	-	-	-	-			Ι	Μ	R	R	R	R	R
Appropriately use hyphens.	-	1	-	1	1	-	Ι	М	R	R	R	R	R
Vary sentence structure.	-	-	-	-	-	-	Ι	Μ	R	R	R	R	R
Appropriately use passive and active voice.	-	-	-	-	1	0	-	Ι	Μ	R	R	R	R
Use semicolons to form sentences.	-	-	-	-	-	-	-	Ι	Μ	R	R	R	R
Use verbs with attention to voice and mood.	-	-	-	-	-	(=)	-	Ι	М	R	R	R	R
Add variety to writing or presentations by using parallel structure and various types of phrases and clauses.	-	-		-	-		-	I	I	I	М	R	R
Use knowledge of usage rules to create flow in writing and presenting.	+	-	-	-	4	-	-	-	- F	I	1	M	R

B.E.S.T. ELA Standards pages 196-197

Dig into the *Conventions Progression by Grade Level* chart. Which skills require morphology instruction?



Handout #6 Morphology in the Foundations Strand

Morphology in the Foundations Strand

Dig into the Progression of Foundations Benchmarks chart. Which benchmarks require morphology instruction?

U	ELA.K.F.1.3	Use knowledge of grade-appropriate phonics and word-analysis skills to decode words accurately.
sis		a. Demonstrate knowledge of the most frequent sound for each consonant.
aly		b. Demonstrate knowledge of the short and long sounds for the five major vowels.
An		c. Decode consonant-vowel-consonant (CVC) words.
p	1.0.0	d. Encode consonant-vowel-consonant (CVC) words.
nd Word Analysis	ELA.1.F.1.3	Use knowledge of grade-appropriate phonics and word-analysis skills to decode words accurately.
Phonics and		a. Decode words using knowledge of spelling-sound correspondences for common consonant digraphs, trigraphs, and blends.
ho		b. Decode simple words with r-controlled vowels.
۹.		c. Decode and encode regularly spelled one-syllable words.
ſ		 d. Decode words with inflectional endings. e. Decode two-syllable words with regular patterns by breaking the words into syllables.
		f. Decode words that use final -e and vowel teams to make long-vowel sound.
	ELA.2.F.1.3	Use knowledge of grade-appropriate phonics and word-analysis skills to decode words.
		a. Decode words with variable vowel teams (e.g., oo, ea, ou) and vowel diphthongs (e.g., oi, oy, ow).
		b. Decode regularly spelled two-syllable words with long and short vowels.
		c. Decode words with open (e.g., hi, baby, moment) and closed (e.g., bag, sunshine, chop syllables and consonant -le (e.g., purple, circle, stumble).
		d. Decode words with common prefixes and suffixes.
		e. Decode words with silent letter combinations (e.g., knight, comb, island, ghost).
	ELA.3.F.1.3	Use knowledge of grade-level phonics and word-analysis skills to decode words.
s	1 - San Carolina	a. Decode words with common Greek and Latin roots and affixes. (See 3.V.1.2)
Analys		b. Decode words with common derivational suffixes and describe how they turn words in different parts of speech (e.g., -ful, -less, -est).
p		c. Decode multisyllabic words.
Noi	ELA.4.F.1.3	Use knowledge of grade-level phonics and word-analysis skills to decode words.
Phonics and Word Analysis		a. Apply knowledge of all letter-sound correspondences, syllabication patterns, and morphology to read and write unfamiliar single-syllable and multisyllabic words in and o of context.
non	ELA.5.F.1.3	Use knowledge of grade-appropriate phonics and word-analysis skills to decode words.
Ph		a. Apply knowledge of all letter-sound correspondences, syllabication patterns, and morphology to read and write unfamiliar single-syllable and multisyllabic words in and o of context.

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B.E.S.T. ELA Standards pages 11-12

11



Systematic

ntegrated

Marks the Spot! Best Practices for Teaching Morphology

Examine the progression of morphology from kindergarten to grade 5 in the Foundations, Communication and Vocabulary strands of the B.E.S.T. ELA Standards.

Identify resources in the appendices of the B.E.S.T. ELA Standards related to morphology instruction.

Curate 3 evidence-based activities aligned to the progression of the morphology benchmarks and instructional best practices.



Explicit Instruction

- Start with basic concepts.
- Provide explicit examples.
- ➤ Use visual aids.
- > Engage in word analysis.
- > Explore word families.
- Create interactive practice opportunities.
 - ✓ Read-alouds with analysis
 - \checkmark Word walls
 - ✓ Word analysis exercises



Handout #3 Morphology Notes

Systematic Instruction

- Base vs. Root Words
- Common Compound Words
- Morphemes vs. Syllables
 - Free vs. bound morphemes
- Affixes
 - Inflectional endings
 - Derivational endings
 - Prefixes
 - Suffixes
 - Greek & Latin Root Words

ntegrated

Handout #3 Morphology Notes

Systematic

ntegratec



Integrated Instruction

- Start whole group or small group lessons with a short morphology warm-up activity.
- Include a Word Study center with engaging activities in center rotations during your reading block.*
- Model the use of morphology to decode and determine the meaning of unfamiliar words during read-alouds.
- Create a morphology bulletin board to weekly showcase a new affix, word family (base or affix) or root word.
- Include words from past and recent Word Studies on weekly spelling tests.



Explicit

Systematic

Integrated

Marks the Spot! Evidence-Based Strategies for Teaching Morphology

- Examine the progression of morphology from kindergarten to grade 5 in the Foundations, Communication and Vocabulary strands of the B.E.S.T. ELA Standards.
- Identify resources in the appendices of the B.E.S.T. ELA Standards related to morphology instruction.
- Curate 3 evidence-based activities aligned to the progression of the morphology benchmarks and instructional best practices.



Morpheme Trees





Handout #7 Morpheme Tree, Word Family and Connected Text

Word Families and Connected Text

part departing departed departs impartial partial partner partners partnering particle particles apartment apartments partition partitioned partitioning

Treasure Hunt

One bright morning, in a dusty box in the attic, Lily found an old map that belonged to her grandpa, who had **departed** a long time ago. She asked her friend Pete to be her **partner** on a quest to follow where the map would lead them, a spot where a treasure might be buried. **Particles** of sand scratched the soles of their feet and **partitioned** tree branches allowed beams of sunlight through, forcing them to squint, but the hope of discovering a long-forgotten treasure was much more exciting than the **partially** completed puzzle awaiting them back at Pete's **apartment**.



Digging Into A Mentor Text – PQRST

This statue fragment from Alexandria

is thought to depict Herodotus, the

world's first real historian.



captain, claimed to have circumnavigated the whole

continent of Africa in a voyage that took three years, well, he was skeptical. He knew a tall tale when he heard

one. When Hanno reported that, far below the equator,

the noonday Sun is in the northern half of the sky, that

seemed ridiculous. The Greeks knew the skies well, and no one had ever seen the Sun anywhere but in the south.

- P (Prefix): find the prefix and identify its meaning
- QR (Queen Root): find the root (which is the queen of the word) and identify its meaning
- S (Suffix): find the suffix and identify its meaning
- T (Total): put the meanings of the units together to gain the word's meaning

"So when he heard that Hanno, a Phoenician sea captain, claimed to have [traveled around all sides of] the whole continent of Africa in a voyage that took three years, well, he was skeptical."



Digging Into A Mentor Text – PQRST – Your Turn

Read the second page of this text. Which word(s) can you identify that would provide practice using this strategy?

Write out the word sum on your handout and share it with a partner.

- P (Prefix): find the prefix and identify its meaning
- QR (Queen Root): find the root (which is the queen of the word) and identify its meaning
- ▲ S (Suffix): find the suffix and identify its meaning
- T (Total): put the meanings of the units together to gain the word's meaning

Being at Sea 59

CIRCUMNAVIGATE means

Still, Herodotus reported what he had been told, making it clear that he doubted the whole thing.

Today we know that the Earth's skies are not the same in the Southern Hemisphere as they are north of the equator. Phoenician mariners must have reached southern Africa; the story Hanno told was too wild to make up.

While the Babylonians and Egyptians were mostly farmers and herders, people of land and river, the Phoenicians and Greeks were more independent breeds: they were people of the sea. Many were mariners or merchants or both. In order to do their jobs well, they had to study the heavens. The stars held practical importance for seagoers; they couldn't leave that knowledge to others.

The Phoenicians lived in what is now Lebanon, at the eastern end of the Mediterranean, and also at a satellite city, Carthage, in North Africa. They are said to be the first who went boldly into the open sea (although their greatest contribution to the world may be the alphabet, an idea that no one else had come up with). By 500 B.C.E., when Hanno set out, the Phoenicians

"to sail all the way around something. Since circumis Latin for "around." a CIRCUMFERENCE is the distance around the perimeter of a circle, I you draw a square (or any other figure) around the circumference, you are CIRCUMSCRIBING the circle A MARINER is a seafarer rom the Latin root me which means "sea." Galileo a Renaissance scientist (1564-1642), spotted bi lark blotches on the Moon, mistook them fo seas, and called them MARIA (the plural of more) We now know these "seas are bone-dry plains, but no one has bothered to change the name





Unearthed Session Treasures

- Examined the progression of morphology from kindergarten to grade 5 in the Foundations, Communication and Vocabulary strands of the B.E.S.T. ELA Standards.
- Identified resources in the appendices of the B.E.S.T. ELA Standards related to morphology instruction.
- Curated 3 evidence-based activities aligned to the progression of the morphology benchmarks and instructional best practices.

Reflect on everything you've learned today. What is one treasure you will take away? How will you use it?



Discovering the Hidden Treasure of Morphology



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1. Open the Whova App.

- 2.Open the 'Agenda' and click on the session you just attended.
- 3. Click on 'Session feedback' or 'Rate session' and complete the five-question evaluation.



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