Vocabulary and Base Words Related to the Science and Engineering Practices®

Asking Questions and Defining Problems

Vocabulary	Root/base-word/Affix	Meaning(s)
question	quest	to search, inquire
formulate	form	to shape

Developing and Using Models

Vocabulary	Root/base-word/Affix	Meaning(s)
construction	con	prefix, with
	struct	build
simulation	sim	like, resembling
predictions	pre	prefix, before
	dict	say
proposed	pro	prefix, forward
	pos	to put, place, or set

Planning and Carrying Out Investigations

Vocabulary	Root/base-word/Affix	Meaning(s)
conducted	duct	to lead
variables	var	to change, different
specifying	spec	to see, look
parameters	para	prefix, alongside, besides, near
	meter	measure
durability	dura	hard, lasting, thick, tough

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Analyzing and Interpreting Data

Vocabulary	Root/base-word/Affix	Meaning(s)
graphical	graph	to write
visualization	vis	to see
comparison	com	prefix, with
	par	equal

Using Mathematics and Computational Thinking

Vocabulary	Root/base-word/Affix	Meaning(s)
computation	put	putare, to think
recognizing	re	prefix, again, repetition
	cog	learn, know
enable	en	prefix, cause to

Constructing Explanations and Designing Solutions

Vocabulary	Root/base-word/Affix	Meaning(s)
multiple	multi	prefix, many
coherence	co	prefix, jointly, together
	her (hes)	variant, to stick

Engaging in Argument from Evidence

Vocabulary	Root/base-word/Affix	Meaning(s)
evidence	e	prefix, out
revise	vid (vis)	to see
defend	de	prefix, down, from, away
	fend	ward off, guard, protect, support

collaborate	col	prefix, with, together
	labor	work

Obtaining, Evaluating, and Communicating Information

Vocabulary	Root/base-word/Affix	Meaning(s)
obtain	tain	hold
evaluate	e	prefix, out
validity	val	worth, strength
communicate	com	prefix, with, together
inquiry	in	prefix, in, into, toward
	quir	see, look for
diagrams	dia	prefix, passing through
graphs	gram (graph)	something written or drawn by hand or machine
equations	equa (equi)	equal, the same
symposia	sym (syn)	prefix, together, with
	pos	put, place, position

Source: Beryl Irene Bailey

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