

RIDE MORPHEME CARDS

Based on Appendix A of *Morpheme Frequency in Academic Words* by Lane, H. B., Gutlohn, L. & van Dijk, W. (2019)

**RHODE ISLAND
DEPARTMENT OF
EDUCATION**

Prefixes

Latin Bases

Suffixes

Greek Bases and Forms

Support
student
spelling and
vocabulary
acquisition



RIDE Rhode Island
Department
of Education

Each card contains either a prefix, a Latin base, a Greek base or combining form, or a suffix.

Morphemes that have more than one form will have the other common form(s) listed underneath. On the flip side of the card, the meaning of the morpheme is listed on top with example words listed below. These cards can be used to understand how words are made of morphemes, or the smallest unit of meaning within a word.

The light blue cards are prefixes, the medium-light blue are Latin bases, the royal blue are Greek bases or combining forms, and the dark blue are derivational suffixes. Please note that inflectional suffixes (e.g., -s, -es, -ed, -ing, -er, -est) are not included. This is not a complete collection, but instead a collection of the most common morphemes, and are shown as presented in "Morpheme Frequency in Academic Words" by Dr. Holly Lane et al (2019).

Students should first be introduced to inflectional suffixes and prefixes before learning Latin bases followed by Greek bases and combining forms to work in a systematic, simple-to-complex sequence. Please also consider which morphemes are used most frequently in your setting when determining a scope and sequence of morphology instruction.

Instructions: Set your printer settings to 2-sided to print double-sided flash cards for student use. These cards can be used across grade levels and content areas to support word recognition and language comprehension.

FOR MORE INFORMATION ON INSTRUCTIONAL PRACTICES ALIGNED WITH THE SCIENCE OF READING, VISIT:
[HTTPS://WWW.RIDE.RI.GOV/INSTRUCTIONASSESSMENT/LITERACY/STRUCTURED LITERACY.ASPX](https://www.ride.ri.gov/instructionassessment/literacy/structuredliteracy.aspx)

THE MORPHEMES, DEFINITIONS, AND RELATED WORDS ARE BASED ON THE UNIVERSITY OF FLORIDA LITERACY
INSTITUTE'S MORPHEME FREQUENCY APPENDIX:

SOURCE: LANE, H. B., GUTLOHN, L. & VAN DIJK, W. (2019). MORPHEME FREQUENCY IN ACADEMIC WORDS:
IDENTIFYING HIGH-UTILITY MORPHEMES FOR INSTRUCTION. LITERACY RESEARCH & INSTRUCTION, 58(3), 184-
209. MILLERS

a-

ac-, af-, ag-,
al-, ap-, ar-,
as-, at-

ab-

ad-

anti-

bi-

con-

co-, col-,
com-, cor-

de-

dis-

di-, dif--

bisect, billion

two

condensation,
cohesive, collect,
complicate,
correspond

with, joint

decompose,
depression

away from, down

discriminate,
diminish, divide,
difference

not, apart,
absence of

abiotic, atheist,
among, ahead,
about

on/in; to; not,
without

abuse, abnormal

away, from

advantage,
accelerate, achieve,
affirmative,
aggression, alliance,
applied,
arrangement

toward, in, near

antithesis,
antagonist

against, opposite

e-

en-

ex-

in-

im-, il-, ir-

inter-

intel-

intro-

multi-

non-

between
intercept,
intelligence

in, inward
introduction

many, much
multiply,
multidimensional

not
nonprofit

lacking, out
eliminate

to make
something
enforce, enable,
enclose

out
expression, expose

(1) in, on, toward (2)
not
(1) information,
investigate, illustrate,
impressionism,
irrigation, (2)
independent, illegal,
immunity,

ob-

oc-, of-, op-

out-

over-

per-

pre-

pro-

quadr-

re-

before, earlier
predictable,
prejudice

forward, prior to
progress, proposal

four
quadrillion

again, back react,
replicate, respond

down, facing,
against, to
observation,
occupational,
official, oppose

out of
outlaw, outcome

do too much of
something
overestimate

through,
completely
permanent,
permutation

se-

sub-

suc-, suf-, sup-,
sus-

super-

trans-

tri-

un-

under-

uni-

triangle

three triple,

unobtainable

reverse
not, opposite,

underestimate,
undergo,

under

uniform

one

segregate,
select

apart, without

suburb, successive,
sufficiency
supplementary,
sustenance

under, below,
secondary

superstition,
superlative

over, above,
extreme

transport, transfer

beyond, across

act

ang

anim

cap

cept, ceive,
cip, cup

cede

ceed, cease,
cess

celer

chart

cart

circ

antecedent,
exceed,
ceaseless,
successive

yield, go,
surrender

decelerate

speed, swift

flowchart, cartoon,

draw

circuit

round, circle

active, interact

do, act

triangular

angle

animate

living, soul

capture, accept,
perception,
conceive,
anticipate,
occupant

take, seize, hold,
receive, contain

clar

claus

clos, clud, clus

commun

common

cult

cur

course

dic

dex, dict

duc

duce, duct

electr

discourse
occurrence,
current,

run, go

indict, dictionary
predict, dictate,
predicate, index,

say, tell

conduct
introduce, duct,
reproducible,

lead

electron
electromagnet,

electric

declarative
clarify,

clear

including, excluding
clause, foreclosure,
close, seclude,

shut, close

communicate
commonwealth,

common,
together

cultivate, culture

care, cult

equ

estim

fac

fic(t), fec(t)

fer

fid

fed

fin

flex

fleet

form

transform,
formulate,

shape

flexible, reflect

bend, curve

finals, definition

end

confidence,
federal

trust

differentiate, ferry
reference,
aquifer,

carry, yield

beneficiary
simplification,
factory, perfect,

make, do

estimate

guess

inadequate,
equity

equal

gen

gene

grad

gress

jec

jac, ject

lat

latus

lect

lec, leg, lig

leg

liter

lit, litera

multilateral

side

election, selective,
college, legend,
intelligence

choose, pick, read

privilege,
legislature

law

illiteracy, literal

letter

heterogeneous
generate,
genocide,

race, kind, birth

gradient, digressive

step, degree, do

adjacent, object

throw, lie

relate, translate

carry, bear

migr

min

mob

mot, mov

mod

mol

mut

nat

nom

molecule

mass, pile

mutual

reciprocal,
borrowed

native, national

people, produce

polynomial

part

emigrant,
migratory

go away,
change, depart

minority, minimal

small

automobile,
unmotivated,
promote, remove

move

unmodified,
accommodate

bound, method,
manner

not

nuc

numer

org

pend

pens

ple

plic

plex, ply

pos

pon, pound

hang, weigh
appendix,
pendulum,
suspension

fill, fulfill
supplement,
deplete

fold
duplicate,
complexity,
multiply

put, place, set,
pose
proposition,
exponent,
compound

write, mark
note, notation,
notary

nuc
nuclear, nucleus

number
numeric,
numerator,
enumerated

tool, instrument
organize,
organism

press

radi

rect

sect

sequ

secu

serv

solv

solu

son

follow
consequence,
persecute,
consecutive

serve, keep
reservoir,
observation,
service

loosen, slacken,
solve
dissolve,
resolution

sound
sonar, consonant

press, pursue
oppression,
expression

ray, spoke
radius, radioactive

right, straight
direct, director,
rectangle

cut
section, dissect,
insect

spec

sta

sist, stat, stit

struct

ten

tain, tin, tinu

tend

tens, tent

tract

valu

vari

stretch, strain

tendon, intensity,
intent

draw, pull

tractor, contract,
traction

give value

valence, evaluate

vary

variable, variant

specify, species

view, sight, kind

establish,
overstatement,
consistent, assistant,
constitutional

stand, set

construct,
restructure,
instruction,
instrument

build

tenant, maintain,
continental,
continuation

hold

ven

vent

verbum

verb

vert

vers

vid

see, separate

eventual
revenue,
intervene,

come

proverb, verbal

word

vertical, diversity,
advertise

turn

evident, revise

see, separate

agon

allel

llei

ana

apo

arch

archae

arce archi

arithm

astr

aster

anarchy, architect

chief, ruler

archaeologist,
archetype,
archive

ancient, primitive

algorithm,
arithmetic

number, count

astronomy,
asteroid

star

protagonist

contest

allel, parallel

one another

analyze, anagram

up, again, on,
backwards

apothem,
apostrophe

derived from,
away

auto

bol

bio

chem

chondr

chron

clima

cracy

crat

mitochondrion

lump, grain

chronic,
chronological,
chronology

time

climate,
climograph,
microclimate

weather

theocracy,
autocrat

rule

autonomy,
automate

self

parabola, symbol

throw

biology, symbiosis

life

chemistry,
alchemy

art of alloying
metals

crit

cryst

cycl

dec

demo

dia

drama

eco

demographic,
democracy,

people

diagonal, dialect

through, across,
between

dramatic,
dramatist

drama

economy, ecology

house, home,
environment

critical, criterion

judge

crystal,
recrystallization

hard, crust, "clear
ice"

cycle,
encyclopedia,
cyclic

circle, wheel

decade, decimal

ten

epi

geo

giga

gon

graph

gram

hect

hedr

hex

anagram
photograph,

write, draw

hectare

hundred

dodecahedron
polyhedral,

seat, side

hexagon

six

epidermis,
epilogue

above, in
addition to

geochemical,
geoscience,
geography

earth

gigabyte,
gigameter

billion

paragon,
trigonometry

angle

hydro

hyper

hypo

iso

kilo

log
logue

lysis

magn

electromagnetic

magnet

analysis, catalyst

breakdown,
decomposition

illogical, dialogue,
monologue

speech, word,
reason

kiloliter, kilogram

thousand

isotherm,
isosceles

equal

hypothesis,
hypotonic

under

hyperbolic,
hyperactive

over

hydrogen,
carbohydrate

water

meta

metr

micro

mito

mon

nano

nom

nym

odo

monopolize,
monohybrid

one

astronomer,
acronym

name, word

nanosecond

dwarf, 'very small'

exodus, periodical

path, road

metaphor,
metamorphosis

beside, after, later

microclimate,
microwave

small, minute

metric,
parameter,
millimeter

measure

mitochondrion,
mitosis

thread

meta

metr

micro

mito

mon

nano

nom

nym

odo

monopolize,
monohybrid

one

nanosecond

dwarf, 'very small'

astronomer,
acronym

name, word

exodus, periodical

path, road

metaphor,
metamorphosis

beside, after, later

metric,
parameter,
millimeter

measure

microclimate,
microwave

small, minute

mitochondrion,
mitosis

thread

oid

oxy

para

pent

peri

phas

phil

phon

around, near
periscope,
periodical

show,
appearance
emphasis,
prophase

love, respect
philanthropist,
philosophy

sound, voice
megaphone,
phonology

like, 'having the
form of'
asteroid,
trapezoid

sharp, concerning,
oxygen
oxidize, oxymoron

beside, position
parasite, paradigm

five
pentagon

phor

photo

phras

phys

pict

pol

poly

schema

pictograph

draw

politic, police

city, citizen

polymer, polygon

many

schematic,
scheming

form, shape

metaphor,
anaphora

carry

photograph

light

paraphrase

express

physiographic,
physics

nature

scope

semi

sphere

syn

sym, syl

sys

techn

tele

theor

theorem

contemplation

synonym,
syllabic,
symmetry

together

telescope

distant

atmosphere

circle

technique,
technology

skill, craft, art

semicircle,
hemisphere

half

subsystem

whole body

endoscope

watch, see

therm

thesis

tropo

typ

thermodynamics,
thermal

heat

hypothesis,
hypothetical

proposition,
statement

troposphere,
tropical

turn, change

stereotype,
typeface

mark, type

-able

-ible

-al

-ant

-ar

-ary

-ate

-ation

-ence

-ance

summary, boundary,
voluntary, preliminary

relating to, place
(noun, adj)
where

accelerate,
accurate

cause, make
(verb, adjective)

confirmation,
determination

act of, state of
(noun)

sequence,
audience,
admittance

action, state,
quality (noun)

permeable,
invisible

able, can do
(adjective)

legal, individual

relating to,
characterized by
(adjective, noun)

stimulant,
dominant

action, state of
(noun)

stellar, similar,
polar

of or pertaining
to (adjective)

-ent

-er

-ial

-ic

-illion

-ion

-ism

-ist

to the power of a
million (numeral)
quadrillion

act of, state of
(noun)
opinion,
transfusion,
distribution

characteristic,
manner, condition
(noun)
altruism, nativism

one who (noun)
tourist, chemist

referent (noun,
adjective)
nutrient,
coincident,
independent

one who, that
which (noun)
computer,
cartographer

relating to,
characterized by
(adjective)
imperial,
commercial,
special,
sequential

of or pertaining
to (adjective)
elastic,
exothermic

-ity

-ive

-ize

-logy

-ly

-ment

-or

-ory

solely, definitely

manner or like
(adverb)

result of, act of
(noun)
document,
entitlement,
harassment

one who, that
which (noun)
dictatorship,
creditor, monitor

pertaining to,
characterized by
(adjective)
memory, transitory

velocity, majority

state of, quality of
(noun)

causing, making
(adjective)
reflexive,
consecutive

to make more like
X (verb)
fertilize, civilize

science or study
of (noun)
hydrologic,
psychology

-ous

-teen

-th

-ure

-y

inclined to (adjective)
milky, injury, hierarchy

full of, having
(adjective)
confirous,
unambiguous

ten (numeral)
fifteen

forms of ordinal
numbers
(adjective)
fifteenth

state of, process,
office, function
(noun)
pressure,
monoculture,
manufacture