



KEY PROCESS SKILLS

5.2C

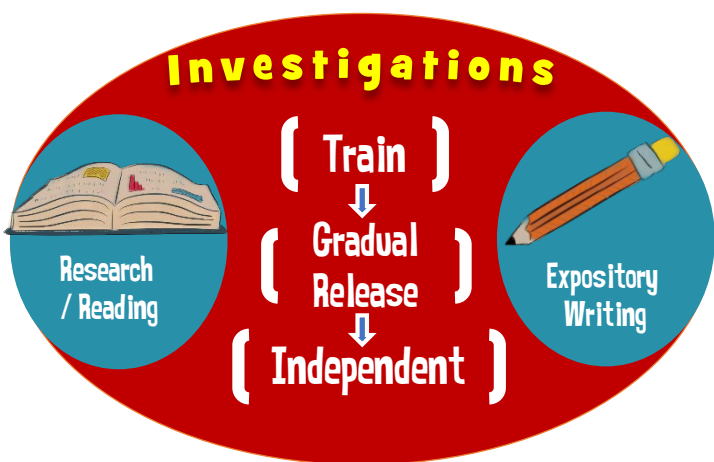
Collect information by detailed observations

5.2D

Analyze / Interpret - explanations based on observed and inferred evidences

5.3B

MODELS



Observation



Classification



Data Collection



Graph/Analyze



Expos. Writing

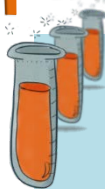


Descriptive Investigation



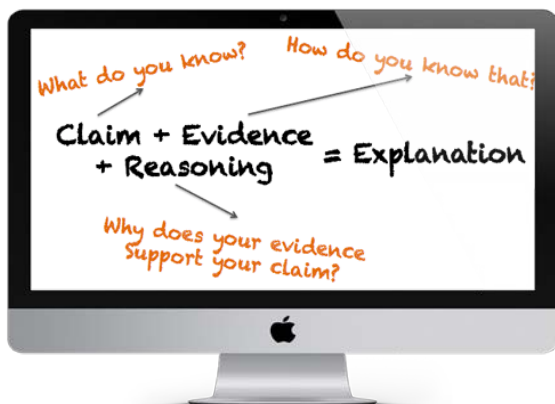
Descriptive investigations involve collecting **qualitative and/or quantitative data** to draw conclusions about a natural or man-made system

Experimental Investigation



These involve designing a **fair test** in which **variables** are actively manipulated (**independent**), controlled (**control**) and measured (**dependent**) in an effort to gather evidence to reject or “support” a **hypothesis**.

C.E.R.



Language, Roots

THE LANGUAGE OF SCIENCE

Sometimes science is hard not because of the science itself, but because of vocabulary used in science. There are many words used in science that are not used in everyday speech, or that may be used in different ways in day to day conversation. Most scientific vocabulary is a mixture of prefixes, suffixes, and root words that are linked together to have different meanings. Most of these are Greek or Latin. If you learn the meanings of the prefixes, suffixes, and root words, you'll find scientific vocabulary much easier to understand.

Word	Meaning	Example
A or an	Not or non, without	
Ad-	To	
Anti-	Both	Abiotic, amoral, atypical, anaerobic
Anthrop-	Human	Adject, adrenal
Aero-	Needing oxygen or air	Ambidextrous
Amphi-	Both, doubly	Anthropology, philanthropy, anthro-
Aril-	Both, doubly	Aerobic
Anti-	Both, doubly	philanthropy, anthro-
Agro-	Both, doubly	Amphibious

5.2D -analyze and interpret information to construct reasonable **explanations** from direct (**observable**) and indirect (**inferred**) evidence;

KEY PROCESS SKILLS



4.2B

Collect information by detailed observations

4.2D

Analyze / Interpret - explanations from data

4.3B

MODELS



Observation



Classification



Data Collection



Graph/Analyze



Expos. Writing

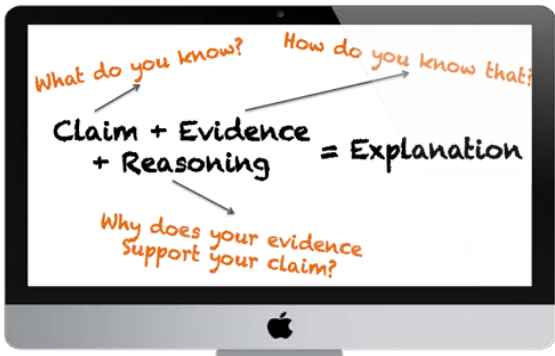


Descriptive Investigation



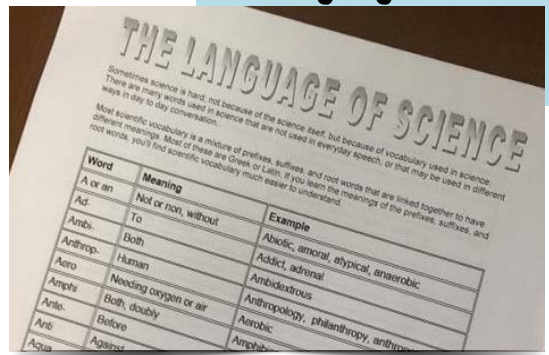
Descriptive investigations involve collecting qualitative and/or quantitative data to draw conclusions about a natural or man-made system

C.E.R.



5.2D -analyze and interpret information to construct reasonable explanations from direct (observable) and indirect (inferred) evidence;

Language, Roots



KEY PROCESS SKILLS



3.2B

Collect information by detailed observations

3.2D

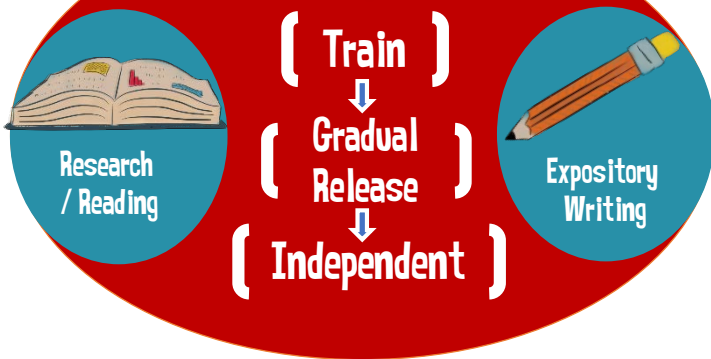
Analyze / Interpret - explanations from evidences

3.3B

MODELS



Investigations



Observation



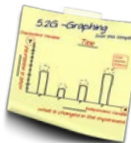
Classification



Data Collection



Graph/Analyze



Expos. Writing

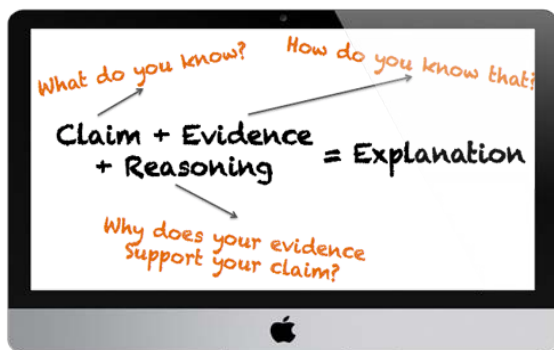


Descriptive Investigation



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Language, Roots

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Aero	Needing oxygen or air	Ambidextrous
Amphi-	Both, doubly	Anthropology, philanthropy, anthro-
Anti-	Before	Aerobic
Anti-	Against	Anthrop-

5.2D -analyze and interpret information to construct reasonable explanations from direct (observable) and indirect (inferred) evidence;



KEY PROCESS SKILLS

2.2C

Collect information by detailed observations

2.2E

Justify explanations from data

2.3B

Make Predictions



Observation



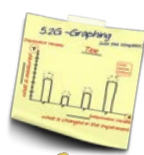
Classification



Data Collection



Graph/Analyze



Expos. Writing



Descriptive Investigation



Descriptive investigations involve collecting **qualitative and/or quantitative data** to draw conclusions about a natural or man-made system

Make it Interdisciplinary



Science content **USING**
Math / Reading / Writing

Language, Roots

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KEY PROCESS SKILLS

1.2C

Collect information by detailed observations

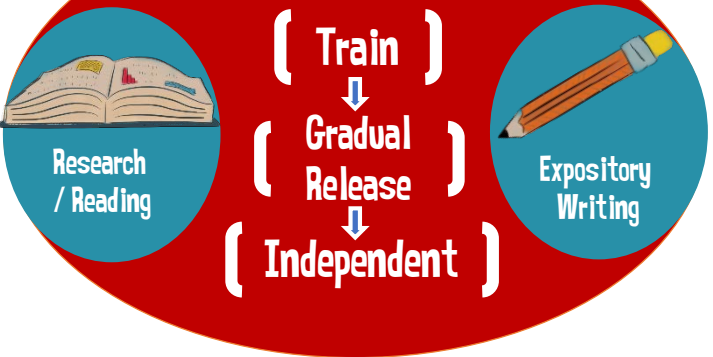
1.2E

Justify explanations from data

1.3B

Make Predictions

Investigations



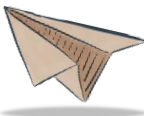
Observation



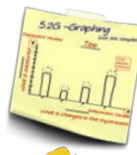
Classification



Data Collection



Graph/Analyze



Expos. Writing



Descriptive Investigation



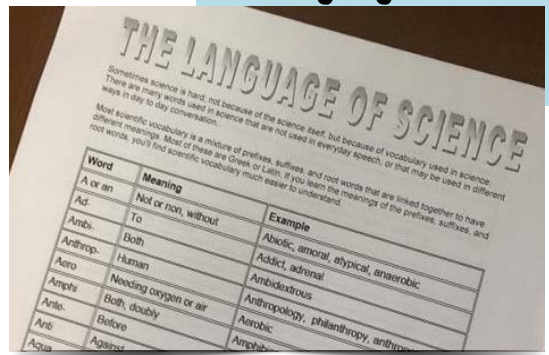
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Make it Interdisciplinary



Science content **USING**
Math / Reading / Writing

Language, Roots



KEY PROCESS SKILLS



K.2C

Collect information by detailed observations

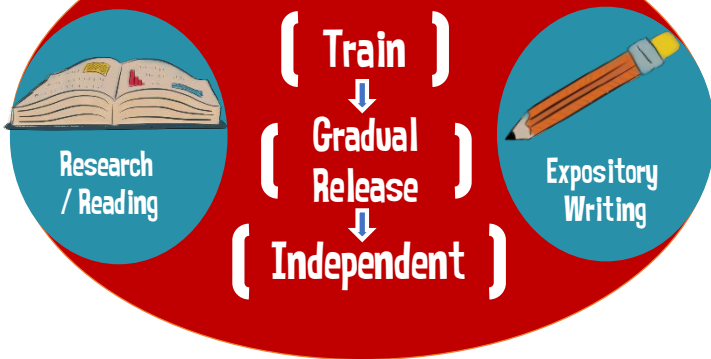
K.2E

Communicate observations

K.3B

Make Predictions

Investigations



Descriptive Investigation



Descriptive investigations involve collecting **qualitative and/or quantitative data** to draw conclusions about a natural or man-made system

Observation



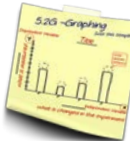
Classification



Data Collection



Graph/Analyze



Expos. Writing



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