

(200-400 L)

	Keywords (dda more words):
	collect/collected data highest value instrument
Examine	- What are the data (information) about?
a. The	data (information) are about
b.By lo	oking at the data I see
Search a	nd Find- How were the data measured?
a.The c	lata were collected by
b. The	Example: me, scientist, satellite, etc. instrument used to measure this data was a/an
Analyze-	What do the data show? Example: thermometer, ruler, e
a.The p	place on Earth where the data were collected is Example: city, state, latitude/longitude, global, e
b.I obs	erve that the time when the data were collected is
	Example: month upar day of
ASK- Wri	te your own questions using the data .
а. Why	te your own questions using the data .
a.Why b.How.	te your own questions using the data .
a.Why b.How Connect	te your own questions using the data .
a.Why b.How Connect a. Thes	te your own questions using the data .
a.Why b.How Connect a. Thes b.These	te your own questions using the data .
a.Why b.How Connect a. Thes b.These	te your own questions using the data . - How can we use this information to help us? e data help us understand e data can help scientists by Vhat does the information tell you? Calculate or estimate using the dat
a.Why b.How Connect a. Thes b.Thes Assess - V a. The	te your own questions using the data .
a.Why b.How Connect a. Thes b.Thes Assess - V a. The I b. Grap	te your own questions using the data .





	Keyv	vords (add r	nore words)):
	collect/collected lov	data hig vest value	ghest value measure	instrument
1. Examin	1e - What are the data (ir	formation) c	ibout?	
a. The	e data (information) are	about	ple: air tempera	ture, precipitation, plants, etc.
b.By	looking at the data I see		· ·	
2. Search	and Find- How were th	ie data mea s	sured?	
a.The	e data were collected bu	J	male: ma scient	ict catallita atc
b. The	e instrument used to m	easure this (data was a/a	in
				Example: thermometer, ruler, et
3. Analyz	: e - What do the data sho	w?		
a.The	e place on Earth where th	ne data were	e collected is Example: city, st	S ate, latitude/longitude, global, et
b.I ob	oserve that the time whe	n the data v	vere collecte	ed is
4. Ask - W	√rite your own questions	using the dc	ita.	Example: month, year, day, etc
a.Wh	y			?
b.Hov	W			?
5. Connec	ct - How can we use this	information	to help us?	
a. The	ese data help us unders [†]	cand		
b.The	ese data can help scienti	sts by		
6. Assess-	- What does the informa	tion tell you'	? Calculate o	r estimate using the data
a. The	e highest value is	Tł	ne lowest va	lue is
b. Gro	aph the data (use graph	paper or cre	ate your ow	n graph to show your
-				

information).





	Keywords (add more words):
colle	ct/collected data geographic area highest value lowest value time range unit
L. Examine- W	at are the data (information) about?
a. The unit b.The datc 2. Search and	used for the data is represent (are about) Example: temperature, distance, mass, etc. Find- How were the data measured?
a.The data b.The data 8. Analyze - Wh	were collected every
using the d a.The high b.The low	ata. est value is and represents st value is
c.The patt	ern/s I see in the data is/are Example: the most, the least, etc.
a.Why doe b.How can	our own questions using the data . s
5. Connect- Ha a.These da b.These da	w can we use this information to help us? ta help us understand ————————————————————————————————————
c.These do 5. Assess - Wha	ta can help scientists understand t do the data show?
a.The geog b.The time	raphic area of Earth where the data were collected is Example: city, state, latitude/longitude, global range (when did it happen?) is from to Example: Monday, October, 12:00, etc.
c.Graph th informat	on.)





Keywords	(add more words):
collect/collected data lowest value	geographic area highest value time range unit
Examine - What are the data (informa	ation) about?
a. The unit used for the data is	
b.The data represent (are about)	Example: C, CH, kg, etc.
Search and Find- How were the data	i measured?
a.The data were collected every	
b The data were collected bu	Example: day, week, month, year, etc.
Angluza What does the information	Example: me, scientist, satellite, etc.
Analyze- what does the information	tell you? Calculate of estimate the humbers
using the data .	
a.The highest value is	and represents
b.The lowest value is	and represents
c.The pattern/s I see	in the data is/are
Ask- Write your own questions using	the data .
a.Why does	
b.How can	
Connect - How can we use this inform	nation to help us?
a.These data help us understand—	
b.These data help explain why ——	
c.These data can help scientists un	derstand
Assess- What do the data show?	
a.The geographic area of Earth wh	nere the data were collected is Example: citu, state, latitude/longitude, globa
b.The time range (when did it happ	pen?) is from to
c.Graph the data. (Use araph pape	Example: Monday, October, 12:00, etc. r or create your own araph to show your





Name: Date: **Data Cube Questions**

central ter	ndencu	data	Earth Sustem	mean	median	mode
pher	nomenon	sphere	time range	variable	unit	
ramine- What ar	re the dat	a about?				
a The variable i			lt renrese	nts		
b The independe	ont variak	le is				
c. The depender	nt variabl	e is				
earch and Find-	How wer	e the data	measured?			
a The		inst	rument collec	ted these d	ata	
h The data are (
o. The unit used	to doori	bo tho dat	Example: day,	week, month, c	quarter, year, (etc.
c. The unit used	to descri		u 15	Example: °C, ci	m, kg, etc.	
a The geographi	es the dd	Earth that	ia raprocenta	dia		
h The time rand			is represente	a is		
			L	· · ·		
c. This variable	belongs ir	i the Example: Hy	ydrosphere, Atmo	_ sphere of sphere, etc.	the Earth	Syste
∖sk - Write your o\	wn questio	ons using t	he data .	•		
a.How do, Why	j, What i	S				
b.I would like to	compare.		with thes	e data becc	iuse	
c.How do these	data affe	ct another	sphere in the	e Earth Sys	tem?	
onnect - How car	n we use t	his inform	ation to help ı	ıs?		
a.These data he	lp us und	erstand				
b.These data ca	n explain	the phenc	menon of	beca	use	
ssess - What doe:	s the infor	rmation te	ll you? Calculo	ate or estim	ate the nu	mbers
using the data .						
a.The range of t	he data is	3				
	an is equ	al to	; median_	;	mode	
b. The data's me		tendencu	ı that best rep	resents the	data is the	9
b. The data's me c.The measure c	of central	centaenteg				
b. The data's me c.The measure c	of central	. This is be	ecause			
b. The data's me c.The measure c <u>mean, median</u> d.Graph the dat	of central	. This is be aph paper	ecause or create your	own graph	to show u	our
b. The data's me c.The measure c <u>mean, median</u> d.Graph the dat information).	of central ormode a (use gro	. This is be aph paper	ecause or create your	own graph	to show y	our
b. The data's me c.The measure c <u>mean, median</u> d.Graph the dat information).	of central ormode a (use gro	. This is be	or create your	own graph	to show y	our 3



	Keywords (add more words):
	central tendency data Earth System mean median mode phenomenon sphere time range variable unit
Exami	ne - What are the data about?
a.Th	e variable is It represents
b.Th	e independent variable is
c. Tł	ie dependent variable is
Searcl	and Find - How were the data measured?
a.Th	einstrument collected these data.
b.Th	e data are collected every
c. Tł	e unit used to describe the data is
Analy	ze- What does the data show? Example: °C, cm, kg, etc.
a.Th	e aeographic area of Earth that is represented is
b.Th	e time range is from to
c Th	is variable belongs in the sphere of the Earth Sust
Ask- V	France of the fr
a.Hc	w do, Why, What is
b.l v	ould like to compare with these data because
c.Hc	w do these data affect another sphere in the Earth System ?
Conne	ct - How can we use this information to help us?
a.Th	ese data help us understand
b.Th	ese data can explain the phenomenon of because
Asses	- What does the information tell you? Calculate or estimate the number
usin	g the data .
a.Th	e range of the data is
b. Tł	ne data's mean is equal to; median; mode ;
c.Th	e measure of central tendency that best represents the data is the
	This is because
d.Gr	mean, median or mode aph the data (use graph paper or create your own graph to show your
inf	ormation).





- 1. Examine- What are the data about?
 - a. What does the variable represent?
 - b. What is the range of the data?
 - c. In which sphere of the Earth System does this variable belong?
- 2. Search and Find- How were the data measured?
 - a. What instrument/s collected these data?
 - b. How frequently were the data collected?
 - c. What unit describes the data?
- 3. Analyze- What does the data show?
 - a. What geographic area on Earth do the data represent?
 - b. What time range do these data represent?
 - c. What area and time data would you like to collect to help you analyze these data?
- **4. Ask-** Write your own questions using the data.
 - a. Identify a question related to these data that you could research.
 - b. Identify another scientific variable that you could evaluate with these data.
 - c. How do you think this area compares to other geographic provinces in your region?
- (i.e., coastal plain, highlands, etc.) 5. Connect- How can we use this information to help us?
 - a. What kinds of research questions could we use these data for?
 - b. Describe how you may use these data to explain a naturally occurring event.
 - c. How is technology connected to these data?
- 6. Assess- What information do you see on the graph?
 - a. Are there any outliers? If so, what are they?
 - b. Do the outliers meet your expectations? Why/Why not?
 - c. Graph the data (use graph paper or create your own graph to show your information).





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