Honors Physical Science 2018 Energy Transfer in Earth's Atmosphere and Oceans Read Chapter 11.1-2, 12.1-2 & 15.2-3 (Geo book)	Nan Peri	
1. Why would snowfall decrease the percentage of white snow reflects radio	f solar radiation absorbed by the	Earth's surface?
2. Why are cloudy days generally cooler than clear clouds reflect incoming ra	r days?	+,
3. Why does the conduction of heat in the atmosp 276 Conduction -> mols collide part Air mol are in conta 4. Describe the airflow when the sun warms the la	here only occur close to the earth thansfer E (directly by Earth's surface and next to cooler lake or oceans land rises & 15 replaced.	ct contact of
Ch. 11.2		
5. Describe heat flow and relate this to the atmosp 278 Heat is the transfer of E t	here. hat fuels atm proce	sses (TT->LT)
6. Describe the relationships between temperature $TT = TP$ Directly prop.	, density, and air pressure in the $T \uparrow = \downarrow D$ inverse	atmosphere.
How does the atmosphere work much like an air Air moves in response to unequal heating of Earth Ch 121 the door to replace the	r-conditioned building? What c	auses wind?
Ch. 12.1 the door to replace the 8. What happens to the area illuminated by sunlight 301 area illuminated at	it as the rays strike the ground a	t a lower angle?
9. What happens to the relative intensity of the sur	nlight as it strikes at a lower ang	door le?
301 SM = 1 S. A. = JInter		
10. Give the type of air mass (Continental tropical, associated with each set of conditions.		olar, maritime polar, arctic)
Warm and dry CT	Cold and humid MP	
Very cold and dry Arctic	Warm and humid M T	env
Cold and dry CP		
11. What type of air mass brings very cold winter a	r to Nebraska?	
1. What type of air mass brings warm humid air fr	om the Gulf of Mexico in the su	mmer?
303 MT		

13.					ced over a cold	dry air mass.	Where would each type
		bably come from	n in the Midwest	08?			
30? Ch.		CP-C	anada	mT-GI	ulf of M	exico	
14.							ould observe it from
space	e? Cori	olis effect	- deflects	moving	part. like	Lair & Wi	ater Co in
305 15.	Describ	be Hadley cells.	ne to cr	eate tra	de winds	spolar	ion. It combine easterlies,
305-	b () 1	2 and s	nair at eq	-30°NIS	es, cools, -related +	condense to trade	s, westerlies winds
16.	w nat is	s the intertropica	i convergence zoi	ne:(IICZ)			
306	1++	ollows H	re Sun's n	nost airec	t rays ar	Dund eq	vator. Air
17.			from the text and				
Ch.	Warm 15.2 sta	tionary-si tuded pre	m. to warm of the same	recip (grad	duent is smi	all) W C	- C →
593	Lxpian	$= \uparrow D$	1 salt =		Sal-Add	salt/Rev	nove Fresh water
Ch.	15.3	old, salty	water = m	iost dense	15al-1	Remove S	'alt/Add Fresh
20.	Syre- cold,s towar Discuss	closed, circ alty dens deguato s the vertical mo	ular cury. Ee water! Ey(density cu vement of energy	ent system tsinksin vrvent) war within the ocean	n - Water travels al m.eq wate ns. (upwelling, n	ong ocea raisplacea water masses)	d toward poles via Surface currents
971-B	upwel	ling - surf	ace water	near coast	is displa	iced, nuti	rient-rion, cold
	wate	r masses	>> See #	M WITH 3	intro 9 at	131119	
warr	southern ar n, saline s	nd northern ends urface waters of	of the Gulf Strea	m that runs from can continue to p	the Gulf of Me	xico to North	nt difference between ern Canada. So that the e a comparable, deep
	a. b.	What happens to rate of gradie	o the rate of circu	lation of the current of steep). When the current of the current o	rent as the densi SES as de NUST Naw	ty difference	becomes smaller? Inff decreases Neating! In current slows down?
	U.	Avg ter	np of Eur	upe decre	iases	ic Gun Sucai	ii cuitciit siews dowii;