1.	
	Uluru and Fraser Island are at the same latitude (about 25° S) but the temperatures they get throughout the year are quite different. Briefly describe <u>how</u> they are different on a daily basis and on a yearly basis. (You will describe <u>why</u> they are different later!)
2.	Describe how northern hemisphere winters are different to southern hemisphere winters.
3.	The air doesn't really absorb much light energy from the sun. How, then, does it heat up?
4.	(a) What happens to the average air temperature as your altitude gets higher and higher?
	(b) Why?
	typically warms up more during the day than, even if the same amount of sunlight hits both of them. There are three main reasons for this Reason 1: Light can pass into water but it can't pass into sand and rocks etc. How does this affect the temperature that land and ocean reach during the day?
6. 7. 8.	sunlight hits both of them. There are three main reasons for this Reason 1: Light can pass into water but it can't pass into sand and rocks etc. How does this affect the temperature that land and ocean reach during the day?
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t D	18	. Since _	typically gets hotter than the	during the day, air blowing over				
Par		Since typically gets hotter than the during the day, air blowing over will typically get hotter than air blowing over the						
	19	Generally, when it comes to coastal cities, winds blowing from the land towards the ocean are						
			inds blowing from the ocean towards the land are					
	20	.Why do	inland regions typically reach higher temperatures during	g the day than coastal regions?				
		D 1		D:				
	21	.Describe	e how a sea breeze forms.	Diagram				
								
Part E	22		stion 1, you described the daily and yearly temperature va					
Pa		account	for these differences?					
	23	. Why do	oes the northern hemisphere have (on average) colder win	ters compared to southern hemisphere winters?				
				·				
	24	Write th	ne formula that ties in the amount of energy absorbed by a					
Skill Builder	24		emperature change.	a substance, its specific fieat capacity, its mass,				
l Bu								
Ski	25	. You po	ur 4 kilograms of water into a pot and begin heating it to	make spaghetti. The temperature of the water				
Part C			20°C and finishes at 100°C (when it's boiling). How much	ch energy does the water absorb as it is being				
		heated?	Show your working.					

26. Fill in the table below that shows data about various substances being heated.

Substance	Specific Heat Capacity (J/kg/°C)	Mass of Substance (kg)	Initial Temperature (°C)	Final Temperature (°C)	Temperature Change (°C)	Energy Absorbed (= SHC \times mass \times temp change) (J)
water		1	20	21		
water		1	20	22		
water		1	20		10	
water		5	15	95		
olive oil		1	20	21		
olive oil		0.5	20	150		
granite	790	2	20	40	_	