Name:	Period:				
CHARACTERISTICS OF LIFE & CELL THEORY					
6 characteristics of life					
 1) Organization of cells 2) growth and development 3) reproduce 	4) respond to stimuli5) homeostastis6) use of energy				
1) Organization (OF CELLS)					
Cell: smallest unit of life					
Organism: a living thing/things that have all	6 characteristics of life				
Unicellular	multicellular				
only made of ONE CELL	made of TWO or MORE cells				
ex. bacteria	ex. plants and animals				
PROKARYOTES: organisms that have NO NU PRO/NO nucleus EUKARYOTES: organisms that have a NUCLI EU/NU	-				
2) GROWTH AND DEVELOPMENT					
ALL living things must GROW	and DEVELOP				
GROWTH	DEVELOPMENT				
in Size (unicellular)	changes in an organism's lifetime -cells specialize				
# of cells (multicellular)					
3) REPRODUCTION To keep species <u>alive</u> , organisms need to	reproduce so they don't go extinct				

4) RESPONSE TO STIMULI

ALL living things react to their <u>environment</u> and their bodies.

INTERNAL STIMULI		EXTERNAL STIMULI
Body functions/needs	(INSIDE)	(OUTSIDE) Environmental factors
-stomach growls> eat - Full bladder>bathroom		-cold> shiver -hot>sweat pupils adjust to light

		pupils adjust to light	•
5) MAII	NTAIN HOMEOSTASIS		
Homeo = SA	AME Stasis = S	TATUS	
Homeo+stasi	s (Homeostasis) = SAME (INTE	ERNAL) STATUS	
~ An or	ganism's ability to maintain stea	ndy/stable internal	conditions when
outsid	le conditions <u>change</u> .		
*** We need t	o maintain certain internal cond	itions to stay alive! ***	
Examples:	Temperature (98.6> if not, Water level (70% water)> o		
6) USE (OF ENERGY		
EVERYTHING	Gliving things do requires ENEF	RGY	
0 0	(organisms) get energy by MAK SORBINGood.	ING their ow	rn FOOD , or
	CELL	THEORY	
1) All liv	ring things are made of ONE	or MORE	cells
2) The c	cell is the smallest	unit of life	
3) All ce	ells come from old	cells	