CORNELL NOTES	TOPIC/OBJECTIVE:	NAME:			
AVID® Decades of College Dreams	Coriolis effect	CLASS/PERIOD: Science 8			
		3/27/15			
ESSENTIAL QUESTION: Identify the Coriolis effect and what it looks like?					
QUESTIONS:	NOTES:				
What is the	Coriolis effect - Ap	parent force due to rotation			
Coriolis effect?	of Earth				
Which directions	1. N. Hemisphere - Wind t	urns right			
do winds turn?	2. S. Hemisphere - Wind t	urns left			
What does the	Strength depends on lat	titude and wind speed of			
strength depend	arp the current weather conditions				
on?					
Depict the	Due to the earth's rotation	n			
Coriolis effect					
		Objects deflect to the right			
		in the northern hemisphere			
	Northern Hemisphere				
	Southern Hemienberg				
	Southern Hemisphere	Objects deflect to the left in the southern hemisphere			
*Winds and		In the southern nemisphere			
rotation					

The Coriolis effect is the apparent force due to rotation of the earth. The winds move while the Earth rotates. Objects deflect right in the northern hemisphere. The objects deflect in the left in the Southern Hemisphere. The Coriolis effect takes a role in weather conditions.

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CORNELL NOTES	TOPIC/OBJECTIVE:		NAME:	
XAVID	Plate te	ectonics	CLASS/PER	Science 8
Decades of College Dreams	(C)	70	DATE:	3/27/15
essential question: Who	at is the Co	ntinental D	rift t	heory and who
prop	osed it?			· ·
QUESTIONS:	NOTES:			
Who proposed		Alfred Wegene	r propo	sed the continental o

ntinental drift the Theory of plate theory, now referred as the theory of plate tectonics. Tectonics? In your own words, Continental drift theory (Theory of tectonic plates) explain the theory? suggests that at one time all the Earth's land masses were joined together, forming a super Continent. Pangea. 1. Shapes of continents fit together What evidence did 2. Same fossils + plants + animals Alfred use? (Founded in diff. areas) 3. Landscapes 4. Climate from before to today 5. Continents moving away Alfred was unable to prove what What was the reason scientists made fun powerful force moved the landmasses Of him?

SUMMARY:

In 1912, Alfred Wegener, a meteorologist, and geophysicist proposed the continental drift theory. He had 5 main supporting evidence for his theory. Despite the evidence, he could not explain the powerful force that moved the land masses. Pangea was a super continent.

Radioactive Decay OX (AIPHA) BETA) X (90MMa)

## NUCLEAR CHEMISTRY

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Pie

gamma

1 EQ: What is radiation and what are the three main types of radiation? Chemical vs. Nuclear reactions La chemical rxns involve the transfer or sharing of (e-) How is chemical - Nuclear rxns involve changes in the reaction different nuclei of atoms then NUCLEAR reaction? Isotopes - atoms with the same # of (pt) and diff. # OF neutrons (nº) C-14 (higher mass) - EX: C-12 more neutrons! What are Isotopes? -unstable isotopes (too many or too fewn) · becomes stable by undergoing changes in the nucleus La releases large amounts of E (energy) Radiation -energy released What are the 3 · 3 types types of radiation a (alpha) -releases & particle 2He and their B (beta) nampol; - release & particle -ie x (gamma) gamma ray 88 - has no mass, no pt Chemical reactions are way different then numer reaction. (humila) reactions involve the transfer or Sharing OF electron. Isotopes are atoms with the humber of protons and different number of new There types of radication one alpha, keta, and

Jopen Dysusion and Demosis Essential auestions: 1) What is the process of diffusion and esmois 1) What is the effect of solute concentration Questions Summary: Iving plant tusues? act. 1A (diffusion) showcases the notes: ability of molecules areas by France of State of to travel between life of cell depends on the fact that the dialysis bag atoms & molecules have kin. and the beaker. The lab shows always in motion What is kinetic how molecule size restricts Inergy? @ Thenetic energy causes mole 2 passage of starch bump into each other move alugose, and Jusion ! transform motion = What causes perocess? rodine. act. 18 (osmosis) diffusion 3 Shows how certain molecules from area molarities of I Concen to area of sucrose quise Concen. more or less change in that - eventually = well be? 198 7 1 3 3 3 3 percentage. The higher the What is an molarity of \* 1.0. Open bottle of 420 (odor of rotter example of sucrose, the higher the percent alfilsion 3 opposite corner well perceive Change in the Smell: bottle has higher

Topic: Orggusion and Domosis A special Case of diffusion = (somosis)

- diffusion of H.D through a

Ellestively permeable.

Membrase Summary (cont.) Questions : Therefore, water will move to How are areas of higher diffusion and osmosis different? water potential, also known as Righer molarities. 1 permeable mem. - allows 4 diffusion in weatherm SHOW of Certain solutes + H20 from a region of 1 H20

gotintial to region of I water In activity 1 C THE STANDARD (water potential) West to Bouton as the sucrose Solution became the potatoes los Le Contraction (6) (water potential) = measure of free energy of water in a DE CHARLEST HOLD mass occause of the water What was the same of the same spotential. 9. Ective transport = process uses energy from ATP to move Now does mare or kear. active transport Physican was the process more substances through the mercentain the substances? cell membrane - regions of & concen. of + 1. C. spen Arthrof Ho Codor of poth the substance into to - Charles The I have the - in well law what well lat Experiment - measure doffus. Ly small Santas Cothe her mail?