PLAYER TIPS UNIT 2: New DIRECTIONS IN LEARNING

	ildren Learn? P		
1	is any pe	rmanent change in knowledge o	or behavior.
Both	and	refer to changes in all do	mains. These changes result from experience
		s, learns how to interact with ot	hers
	rain Biology pg 3		
			an adult brain. It develops rapidly in stages.
		are released in wave	
3. When	your child is betwee	n 3 and 10 months of age,	(turning on) and control of motor
action	ns are maturing.		
5. When actual 6. When	your child is betwee I experiences is the by your child is betweer	n 6 and 8 years of age, orain area maturing.	of the senses is the brain area maturing (beginning) of logical thinking about or 12 to 14 for males, the beginning
7. The br 8	rain is made up of 2 t send and recei	ypes of cells ave electrical impulses.	nd cells. direct various tasks within the brain
9. There	are 3 types of brain	neurons that Include sensory, _	, and interneurons
10. Each	n neuron has a cell b	ody with and axo	ns.
3 Parts o	of the Neuron pg 38		
11.Cell E	Body contains	information and prote	eins for cell maintenance.
12. Deno	driteswhich means	s, are short, bushy c	ables that allow each neuron to
rece	eive signals sent by c	ther neurons.	
Types a	nd Functions of Ne	urons pg 39	
	signals from a	is, are long, thick cables with _ neuron to other neurons	
14. Sen	sory Neurons trar which is called th		nal to the central nervous system
15. Mot	or Neurons transfe	r from the CNS	S to the external environment
16. Inte	rneurons (neurons) process inform	mation in the CNS and transfer
	information from	n one neuron to another within	the central nervous system (CNS)
17	cells are brain o	ells that support neurons and _	means"glue"
18. Wha	at percentage of brai	ns cells are glial?	0.402.402
19 Glia	l cells vary in	throughout the brain	

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4 T	4 Types of Glial Cells pg 40	
2	20 Astrocytes 1)help the neurons receive	
	2)control chemical of the bra	
	(3)restrict certain from enterin	g the brain.
	21. Microgliaremove cellular	
2	22. Ependymalform a protective covering around	cord and central brain cavities.
2	23. Oligodendrocyteshelp insulate the axons with	
	s and Functions of the Brain pg 41	
	24 lobehearing, smell, memory,speech	(3) ° (A) °
1 00	25. Frontal lobememory,intelligence,behavior,, mo	
	26 lobe pain,touch, speech, sensations of hot an	d cold
	27. Occipital lobevision,	
	28body movements and balance	
	29. Brain Stembreathing, heart rate,, reflexes, blood	pressure
Making	ing and Sorting Connections pg 39	
30	30 is the network of fibers that carry brain signals be	tween neurons.
31	31 create the structure for wiring.	
32	32. Life-sustaining is present at birth. Tentative	is due to experiences.
33.	33 The sorting process is called	THE THE
34.	34. During the firing process, signals cross the via ne	urotransmitters.
35.	35. The area is used for combining two or more se	nsory association areas. For example,
13	the brain can process motor movements used in talking and er	
	at the same time.	
36.	36connections are not forgotten. Riding a bicycle,	playing a musical instrument or
	playing a sport are skills that become once you	
37	37 is the removal of seldom-used connections, allowing	
	38. Pruning begins in a child's first years and is almost completed	
		byyears or age.
	39. At birth, each neuron has synapses	
	40. By 3 years of age, each neuron has pruned conne	
	41 is a fatty substance that increases speed of electrons	ical signals.
N	NOTES:	

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Reshapin	g Connections: Brain Plasticity pg 42			
42	is the ability of the brain to adapt to the environment.			
43	is lifelong, but lessens with age.			
44	can have both positive and negative effects depending on a person's experiences.			
45	that aid making connections are far more active in the earlier years.			
46	are more flexible in the early years and become more stabilized as people age			
g of Exp	eriences pg 43			
47	are times when some part of the body is very vulnerable to lack of			
48 A good remove	imulation or to negative experiences. example of the vision critical period is a baby with when born needs them d during the first few months of life or they can be blind for life. - period are times when the brain is best able to wire specific areas.			
	are the prime periods to develop specific skills. A child reaches a			
	pacity to learn the skill if given the opportunity.			
1 1/1/1	Knowledge pg 49			
	knowledge refers to knowledge about facts. It is sometimes called			
3/1/3/	dge because it is written.			
	Knowledge refers to skills-based knowledge and is also calledbased			
knowle				
	children begin acquiring implicit knowledge when they learn to ride a bike, or balanc	<u>'</u> و		
blocks				
53.	knowledge refers to the ability to create knowledge. This type of knowledge underlies			
	echnological development,discoveries and process advances.			
	edge about which is also called the knowledgeinvolves knowing who	,		
	w forms of knowledge.			
	Child Development Knowledge to Education pg 50			
	ne, schools were focused on preparing children to be productive workers.			
	en learned through memorization.			
57	was used to reward mastery of facts and skills.			
58. A	moment is the best time to teach a specific skill.	_		
	ness stems from 3 things which include A) physical maturation B)pressures C)inne	ſ		
pressi	ires			
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60. The L	J.S. is now a	<i>-based economy</i> . Knowledge	e, information, and technology drive			
produ	uction.	744				
61	must be adaptable and	creative.				
62. Theori	ies of and Vygots	sky are used to inform "best	practices."			
63. Theori	ies givede	velopers guidelines for know	ving the best time for learning certain			
knowle	edge and skills.	· Gira	· Gliss			
Executive Functions pg 53						
64	Functions (EFs) are i	ntellectual functions people	use to manage themselves and their			
resource	S.	37. 17				
65	memory is the storing	g, organizing, and manipulat	ing information while working			
66	flexibility—being	able to adjust to changing de	emands			
67	is being able to filter	thoughts and feelings				
68. Galinsky has 7 Life Skills A)Focus and self-control B)Perspective taking C)						
D) Makin	g connections E) Critical thin	king F)Taking on	G) Self-directed and engaged			
Learn	ing.		- 100			