Name	e:		ID#:	Date:							
Lesson#	How Does Out Layer 1: Collect Prior		<u>n?</u>								
S	corecard Preview	Directions: Rat	e yourself on the following s	scale.	the be	eginnir	ng of t	he cou	ırse.		
#	Do you							Pre-Score Always Sometimes Never			
4	Think your intelligence and ab	oilities cannot change	over time?		1	2	3	4	5		
5	Study just to pass tests rather	than to truly learn th	ne information?		1	2	3	4	5		
6	Give up easily when tasks bec challenges?	ome difficult instead	of trying new strategies to overc	come	1	2	3	4	5		
0	nvestigation Direc	tions: Follow the	prompts in the course to fil	I in the	bo	xes	, be	low			
A			B								
(C)			(D)								
(E)			(F)								

#uossar	How Doe	s Our Brain Learr	լ?				
Less	Layer 2: Conn	ect New Information					
	K ey terms	The following terms and	cor	ncepts are introduced in this lesson:			
•		intelligence and talents are Is challenges and views failure	•	red zone : Brain's state of alert for danger, prevents learning.			
•	growth mindset: Belief tha	at abilities can improve through es and sees failures as learning	•	yellow zone : Default, "neutral" state where the brain is calm, yet always ready to respond to threats.			
•	The Brain Circuit™ Model:	Concept comparing the brain re learning involves linking new eady known.	•	green zone : Optimal learning state characterized by joy and relaxation, enhancing information uptake.			
•		ransmit information through	•	Back Brain : Handles subconscious processing and long-term memory storage, efficient in energy usage.			
•	prior knowledge : Informatintegrate new knowledge.	tion already known that helps	•	short-term memory : Capacity to hold small amounts of information briefly in the Front Brain.			
•		g knowledge gradually in short, p a complex understanding.	•	long-term memory : Stores information for long durations, managed by the Back Brain.			
•		rea that processes emotions; sures, which either interrupts or	 memorizing: Process of storing short-term information without deep understanding, leading to easy forgetting. 				
•	Front Brain: Manages cons	scious thought, decision- emory, important for planning	•	learning : Process of acquiring and applying knowledge by connecting new and existing information, supported by the brain's neural networks.			
	Sections			ctions below. Use this information to guide your progress through the lesson.			
Π		A. What is your mindset	fixe	ed or growth?			
		B. The Brain Circuit™					
		C. Learning IS connecting					
		D. Learning happens in laye	ers				

Name: _			ID#:	Date:	
# Lo	How Does C	Our Brain Learn?			
3	Layer 3: Confirm U	Inderstanding			
A pp	oly + Practice	Connect new terms	S		

The activity below is based on the principle that all learning connecting new information to prior knowledge. Even if these terms are new, their definitions provide the necessary background. By connecting these terms, we actively process them and anchor them in our long-term memory.

Directions: In the blank spaces below, form a sentence by writing a phrase that connects the two words/phrases on opposite ends of each row. Several examples are provided for further clarification. (This activity is a prelude to concept maps, a strategy introduced in Lesson 13.)



neurons

Nerve cells that transmit information through electrical signals.

are electrical connections in the

The Brain Circuit™ Model

Concept comparing the brain to electrical systems, where learning involves linking new information to what is already known.

learning

Process of acquiring knowledge by connecting new and existing information, supported by the brain's neural networks.

lasts much longer than

memorizing

Process of storing short-term information without deep understanding, leading to easy forgetting.

short-term memory

Capacity to hold small amounts of information briefly in the Front Brain.

Is what we use when we are

memorizing

Process of storing short-term information without deep understanding, leading to easy forgetting.

short-term memory

Capacity to hold small amounts of information briefly in the Front Brain.

Front Brain

Manages conscious thought, decision-making, and short-term memory, important for planning and organizing.

long-term memory

Stores information for long durations, managed by the Back Brain.

learning

Process of acquiring knowledge by connecting new and existing information, supported by the brain's neural networks

Back Brain

Handles subconscious processing and long-term memory storage, efficient in energy usage.

learning

Process of acquiring knowledge by connecting new and existing information, supported by the brain's neural networks

prior knowledge

Information already known that helps integrate new knowledge.

learning

Process of acquiring knowledge by connecting new and existing information, supported by the brain's neural networks

Name: _			ID#:	Date:	
#wsou#	How Does C	ur Brain Learn?			
Less	Layer 3: Confirm U	Inderstanding			

Apply + Practice Connect new terms - page 2 of 2

The activity below is based on the principle that all learning connecting new information to prior knowledge. Even if these terms are new, their definitions provide the necessary background. By connecting these terms, we actively process them and anchor them in our long-term memory.

Directions: In the blank spaces below, form a sentence by writing a phrase that connects the two words/phrases on opposite ends of each row. Several examples are provided for further clarification. (This activity is a prelude to concept maps, a strategy introduced in Lesson 13.)



Back Brain

Handles subconscious processing and long-term memory storage, efficient in energy usage.

makes connections when we are

learning in layers

Building knowledge gradually in short, stacked sessions to develop a complex understanding.

fixed mindset

Belief that intelligence and talents are unchangeable traits. Avoids challenges and views failure negatively.

growth mindset

Belief that abilities can improve through effort. Embraces challenges and sees failures as learning opportunities.

fixed mindset

Belief that intelligence and talents are unchangeable traits. Avoids challenges and views failure negatively.

triggers negative feelings in the

emotional center

Brain area that processes emotions; reacts to threats and pleasures, which either interrupts or supports learning.

growth mindset

Belief that abilities can improve through effort. Embraces challenges and sees failures as learning opportunities.

emotional center

Brain area that processes emotions; reacts to threats and pleasures, which either interrupts or supports learning.

red zone

State of alert for danger, prevents learning.

yellow zone

Default, "neutral" state where the brain is calm, yet always ready to respond to threats.

green zone

Optimal learning state characterized by joy and relaxation, enhancing information uptake.

emotional center

Brain area that processes emotions; reacts to threats and pleasures, which either interrupts or supports learning.

Nam	ne:				ID#:	Date	e:			
Lesson#	3 How	Does Oul B: Confirm Und		ain Learn?						
Scorecard Review			Directions : What solutions have you learned to resolve each problem, below? For each statement: rate yourself post-lesson, briefly describe a solution you learned, and calculate the difference from your pre-score.							
#	Do you		Solution				Post-Score Always Sometimes Never			
4	Think your intelligence and abilities cannot change over time?					1	2 3	4	5	
5	Study just to pass tests rather than to truly learn the information?					1	2 3	4	5	
Give up easily when tasks become difficult instead of trying new strategies to overcome challenges?						1	2 3	4	5	
R	ubric: Ap	ply + Pract	ice	Directions: This rubric is progress on the Apply + P		our teac	her ev	/alu	ate yo	ur
CRITERIA EXCELLENT (4)			Satisfactory (3)	NEEDS IMPROVEI	EMENT POOR (1)					
of Concepts all ter		Accurately con all terms with o understanding	deep	Connects most terms accurately with good understanding.	Some correct connections, lin understanding.			nec	ct tions, tandin	
<u>-</u>		Sentences are logical, and we explained.		Sentences mostly clear, minor issues.	Sentences lack clarity, often confusing.				ces un ent.	clear,
Completion Completes all particles and Effort effort.			Completes most parts, good effort.	Completes som parts, minimal effort.	e		•	etes fe ttle ef		

Total points:

Name:	ID#: Date:
	v Does Our Brain Learn?
- OKIII	Demonstration Form
The purpose of the assessment and/o	is activity is to apply the information from this lesson to "real life" situations. It can be a stand-alone or used as preparation for the end-of-course Exit Presentation.
Directions	Complete the prompts below, in writing or with multimedia tools. NOTE: As an alternative to this form, a digital portfolio is provided throughout the curriculum
Section #:	Section Title:
Chapter #:	Chapter Title:
(For example: tak	kill or topic you learned? ing notes, using a planner, communicating with teachers, etc.)
	ame of the evidence and a short description?
(Examples of evid	ence: a page of notes, a page from a planer, an email to a teacher, a photo of your organized binder or bedroom, etc.)
3. How does thi	s evidence illustrate what you learned about this skill or topic?
4. How/why/wh	nen do you expect to use this skill or information in the future?
Rubric	Evaluation guidelines are below. (Your teacher will determine the total number of points possible.)
SCORE POIN	TS PEPEODMANICE INDICATOR
1 0331	The evidence provided demonstrates an <u>understanding of the concept/strategy</u> .
	The evidence provided demonstrates appropriate application to a current setting.
	The description of a future application demonstrates an understanding of the <u>potential use</u> for this
	concept/strategy. COMMENTS: