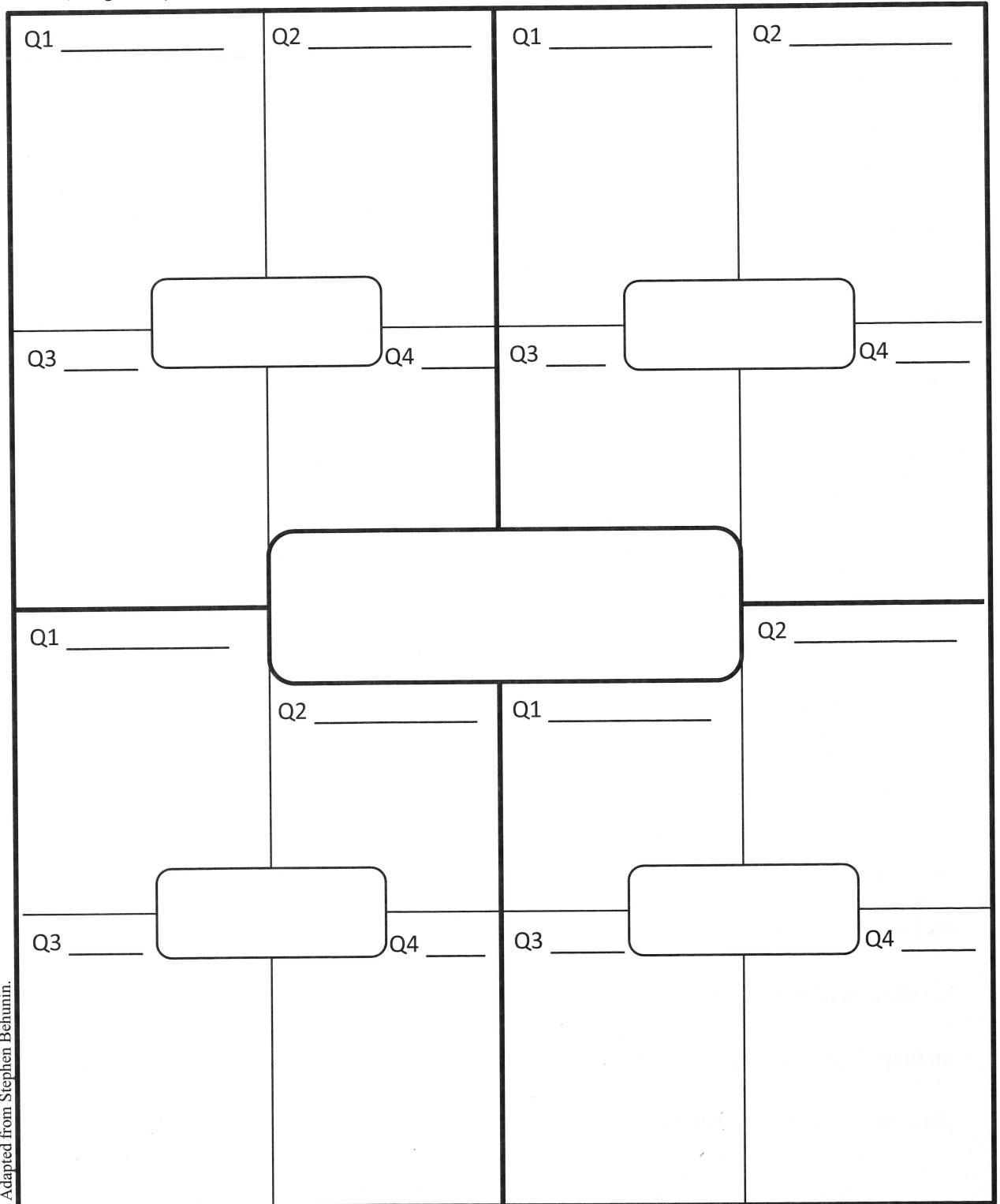


Name _____ Date _____ Section _____ Text or Chapter _____

4x4 Download

ThinkSheet for Synthesize Along the Way

(1) Select four useful generic questions to use over and over for each section of the text. Put an abbreviation of each in the slot provided for each small quadrant. (2) Read a section with these four questions in mind. (3) Write the answers distilled into a word or phrase—one to four answers per small quadrant. (4) In the small oval, capture in a single statement the meaning of that section. (5) Repeat Steps 1-4 for each important section of the text, using as many sheets as needed. (6) When finished with chapter, write a synthesis of the entire chapter in the large center oval.



Record *4x4 Download* on your Reading Log on the DURING line. Reflect how this strategy helped you construct meaning.

Who?	① What happened?	Who?	② What happened?
lovely Cinderella no father mean Stepmother spoiled stepsisters animals	slave labor kind to animals abusive language	king Step mother Step sisters Cinderella Prince	Invites all to ball scurrying to prepare yell at Cinderella with impossible demands
When/ Where?	How/why?	When/ Where?	How/why?
mansion every day	Cinderella makes best of her bad family life	bedrooms clean house kitchen all day	Family prepares for the ball
Cinderella's goodness wins in the end			
Who?	What happened?	Who?	What happened?
Step mother + sisters	leave	Prince	dance
Cinderella	cries	many young ladies	P + C fall in love
fairy godmother	transforms	Cinderella - in-cognito	admire Cinderella
When/ Where?	How/why?	When/ Where?	How/why?
house garden evening	Cinderella can't go, then can too much work sisters don't want competition Cinderella deserves to go	the ball + lost slipper	Clock strikes midnight she flees, leaves 1 slipper the ball, better than a dream spell is over steps runs to leave & drops slipper

Main Pts	Important Details	Main P.	Imp. Details
Tech. needed to study brain histology resulted Nissl stain	too small same color couldn't slice microscopic study color dyes cell parts seen cytoarchitecture	Golgi stain 2 parts of brain cells	named for Camillo Golgi silver chromate 1873 Nucleus Cell body Soma Perikaryon Axon Dendrites Central region
Unanswered Questions	p.25 Development of technology made study of brain cells possible.	So What?	p.26-27 Golgi stain revealed much abt. brain cells
How Nissl color cell parts? When discover that brain cells are different?	What we can't study, we can't understand & fix	? s	So What? • Provide much new detail • led to much study & more discoveries
Points	pp. 24-49 Brief History of being able to study brain cells. • What is known (currently) abt. neuron. • How neurons are classified • Abt. glia "the sleeping giants"	Details	Details
Cajal used Golgi's method Major disagreements Not resolved until 1950's - Cajal right	intense study - 25 yrs to end of their lives Are axons & dendrites fused like arteries & veins? Golgi yes Cajal No (communicated by contact)	Points	standard microscope resolution ~1 μm electron microscope 1 mill. times better than unaided eye lasers peer into living tissue eye 100 μm - $\frac{1}{10}$ th millimeter neurons 20 μm neurites < 1 μm space between .02 μm
? s	p.27 Cajal & Golgi came to vastly different conclusions - same data	So What?	p.28 improved microscopes have greatly facilitated brain research
Conflicts today? How did others line up? What was Cajal's reasoning? & his observations?	• Same evidence - different conclusions • Only improved tech. can answer some? Cajal's view had lead to further study	What is μ?	So? Can study small things. If improvements in the past - then more in the future!