

A GRAPHIC ORGANIZER TO FACILITATE SYSTEMIC THINKING ACROSS SUBJECT-DISCIPLINES

READING	WRITING	MATHEMATICS	SOCIAL STUDIES	SCIENCE	TECHNOLOGY
R1 Challenge; Question; Purpose	W1 Challenge; Topic; Purpose; Thesis	M1 Challenge; Problem	SS1 Challenge; Topic; Theme	S1 Challenge; Question; Problem	T1 Challenge; Problem
R2 Skim passage; Connect to background knowledge; Activate schema; Make educated guess using context clues	W2 Pre-write; Brainstorm; Outline; Plan; Web	M2 Identify concepts	SS2 Identify key terms, Vocabulary; Isolate & classify variables	S2 Identify concepts; Make educated guess, Hypothesize	T2 Design brief; Specifications, including timeline
R3 Read passage; Process information; Look for key words, ideas, events; Reason	W3 Write rough draft	M3 Devise problem-solving strategy	SS3 Reason; Observe cause & effect relationships	S3 Reason; Identify cause & effect relationships; Select variables to control	T3 Explore multiple solutions; Select best & creative solution
R4 Visualize; Make inferences	W4 Revise draft; Make a case	M4 Use manipulatives; Carry out operations	SS4 Investigate; Seek & select source(s)	S4 Plan & experiment	T4 Implement solution & build model or prototype
R5 Identify important information & interpret	W5 Edit draft	M5 Review work done; Illustrate, plot & graph; Analyze graph & data	SS5 Analyze & verify findings	S5 Analyze results & graph relationships	T5 Test & evaluate prototype or product
R6 Summarize & synthesize; Check if purpose accomplished; Communicate & justify solution using own words	W6 Share & communicate using final draft	M6 Verify reasonableness of result; Communicate solution	SS6 Summarize & synthesize; Check if purpose accomplished; Communicate; Predict	S6 Verify reasonableness of result; Check if purpose accomplished; Communicate findings of experiment	T6 Reflect on product & process; Modify design; Share & communicate final design