COMPUTATIONAL THINKING PATHWAY

— at —

BROWARD COUNTY
PUBLIC SCHOOLS

PATTERN RECOGNITION
Identify patterns and attributes in small problems to solve complex problems efficiently.

ALGORITHMIC THINKING
Illustrate thoughts, ideas, and stories in a step-by-step manner using writing tools, digital cameras, and drawing tools.

COMPUTATIONAL THINKING SKILLS

ABSTRACTION

SELECTING TOOLS

ALGORITHIMIC THINKING

COMPUTATIONAL THINKING PRACTICES

AUTOMATION

INCLUSIVE

PEDAGOGIES

DATA PRACTICES

COMPUTATIONAL MODELING

PATTERN RECOGNITION

DEBUGGING

DECOMPOSITION
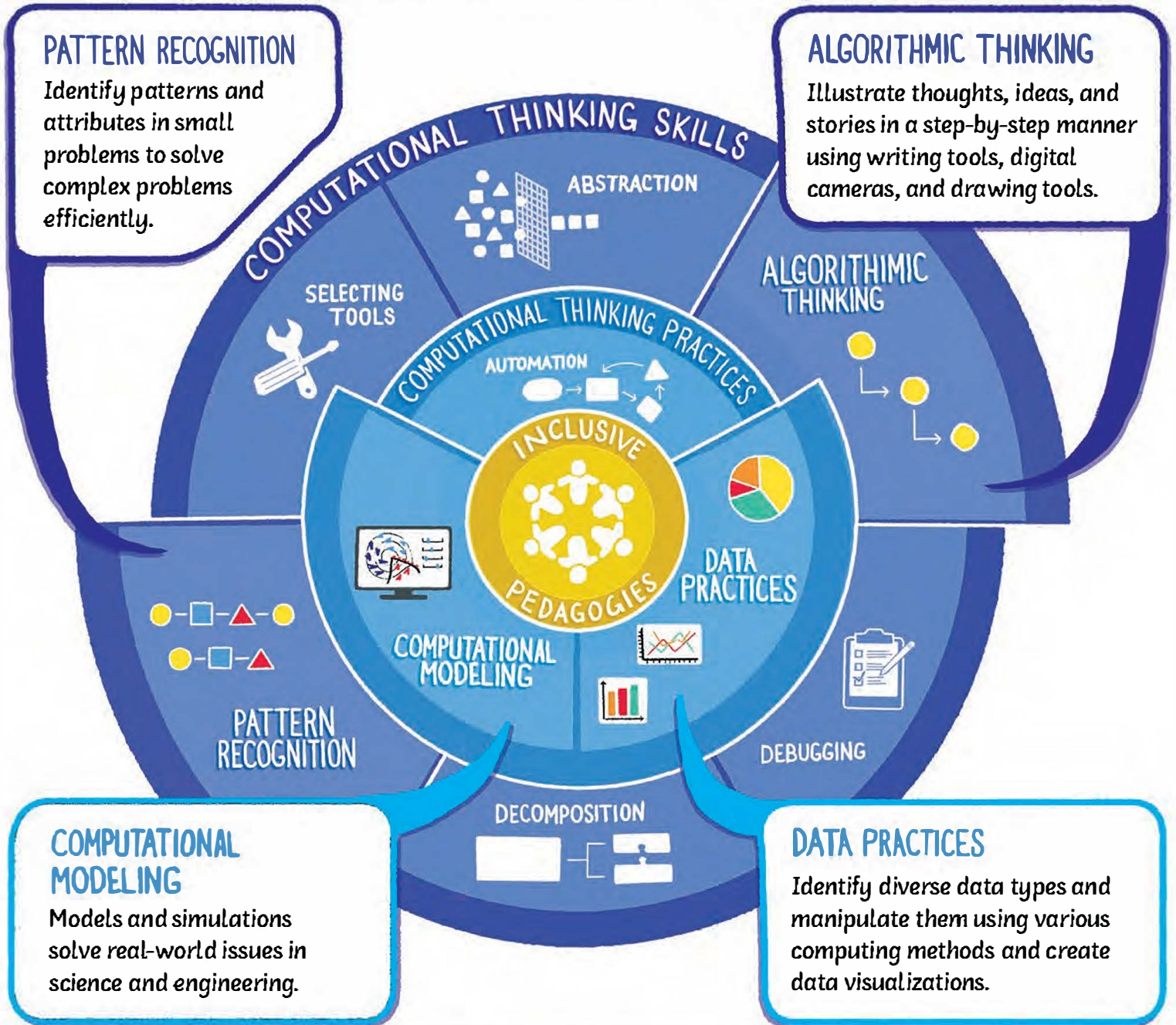
COMPUTATIONAL MODELING
Models and simulations solve real-world issues in science and engineering.

DATA PRACTICES
Identify diverse data types and manipulate them using various computing methods and create data visualizations.
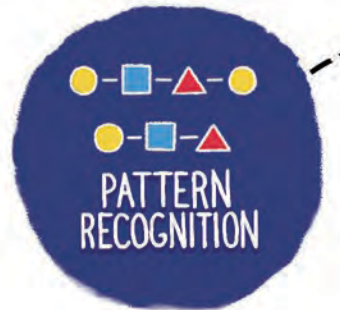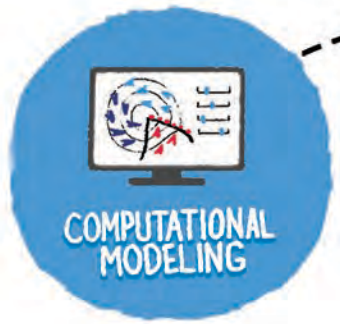
WHERE IS COMPUTATIONAL THINKING ALREADY HAPPENING?

	ELA	Math	Social Studies	Science	Electives
ALGORITHIMIC THINKING	Plot analysis	Steps for solving math word problems	Technology ethics and bias	Writing and following procedures	Procedures for playing sports
	Steps in the writing process		History causes and effects	Dichotomous Key	Steps to create music or artwork
COMPUTATIONAL MODELING	Graphic organizers	Manipulatives, journals	Maps, timelines		Hands on activites
	Concept mapping		Historical artifacts	Natural Disasters	
PATTERN RECOGNITION	Identifying character traits	Formulas, variables		Systems and cycles	Music theory
	Poetry Syntax, recurring events	Data mining	Economics: Supply and demand	Genetics	
DATA PRACTICES		Using data analysis tools		Data collections, data analysis	
	Essays, debate, evaluations, visualizations	Manipulating data	Graphs of historical data		Rubrics, statistics, and evaluation for performance

WHERE DO YOU USE COMPUTATIONAL THINKING?

Add in where you use CT in your classroom to the blank boxes above!

What examples of the indicated computational thinking (CT) practice or skill would complete the blank rectangles in this chart?

Join the online PLC and share CT ideas, reflections, integrated lesson plans, and student work (anonymous) at browardschools.com/browardcodes