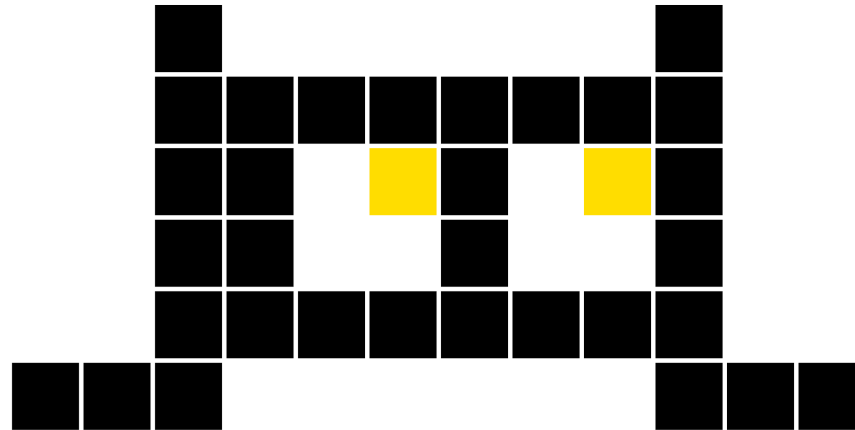


CURRICULUM

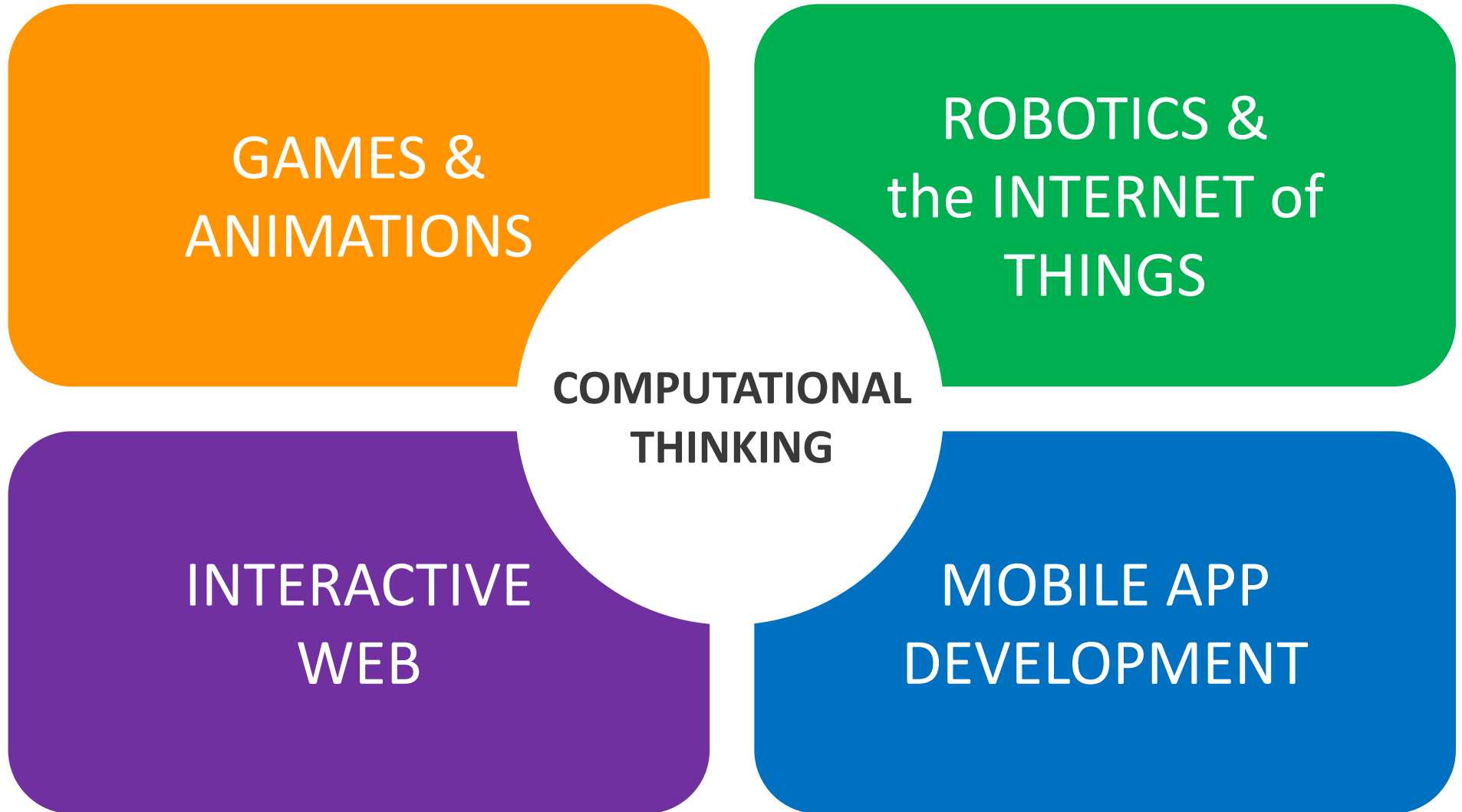


Learn to Code, Code to Learn

CODING ACADEMY

The premier coding & computational thinking school

FOUR DOMAINS ROOTED IN COMPUTATIONAL THINKING





COMPUTATIONAL THINKING (CT)

CT is a set of concepts and approaches for formulating a problem and expressing its solutions in a way that an information-processing agent, be it computer or human, can effectively execute.

CT supports problem solving across all disciplines, including the humanities, sciences and engineering.

CT is the core skill that LCCL Coding Academy promotes in all its learning domains.

IT-enabled Mindset, ITeMS™ is formulated by Prof Leong Hon Wai, Professor of Computer Science at the School of Computing, NUS.

In the ITeMS™ modules, students learn to develop an IT-enabled mindset, which is the ability to leverage on CT to apply to problems across all domains, to ask new questions, solve new problems and seek new solutions.

ITeMS™ is a highly recommended module to students of all ages, regardless of interest.

MODULES

Tiny Tots Programme
ITeMS™ for Kids
ITeMS™ for Teens
ITeMS™ for Young Adults



GAMES & ANIMATIONS

Students learn CT by coding their own games and animations.

MODULES

GP1: Game Programming I
GP2: Game Programming II
GP3: Game Programming III
MC1: Minecraft Modding I
MC2: Minecraft Modding II
MC3: Minecraft Modding III



INTERACTIVE WEB & MASHUPS

Students code & publish their own interactive apps with a combination of modern web technologies.

MODULES

JS1: Interactive Web with JS I
JS2: Interactive Web with JS II
JS3: Interactive Web with JS III
Interactive Web & Mashup Projects



ROBOTICS & IoT

Students bring coding to life in the physical world with robots, micro-computers & everyday items.

MODULES

RC1: Robotics & Coding I
RC2: Robotics & Coding II
RC3: Robotics & Coding III
MB1: micro:bit I
MB2: micro:bit II
MB3: micro:bit III

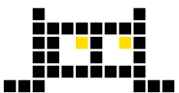


MOBILE APP DEVELOPMENT

Students code & publish their own mobile apps.

MODULES

SW: Swift Programming
Mobile App Development with Swift



LCCL CODING ACADEMY

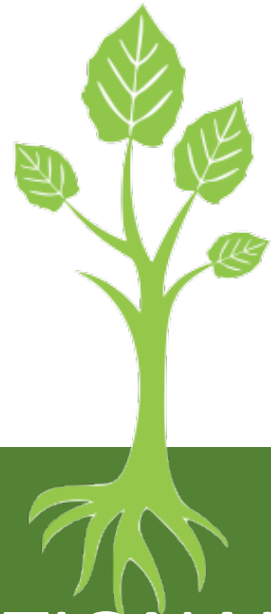
The premier coding & computational thinking school

STUDENT PROGRESSION

**CODING
FUNDAMENTALS**

ALGORITHMS

SYSTEMS DESIGN

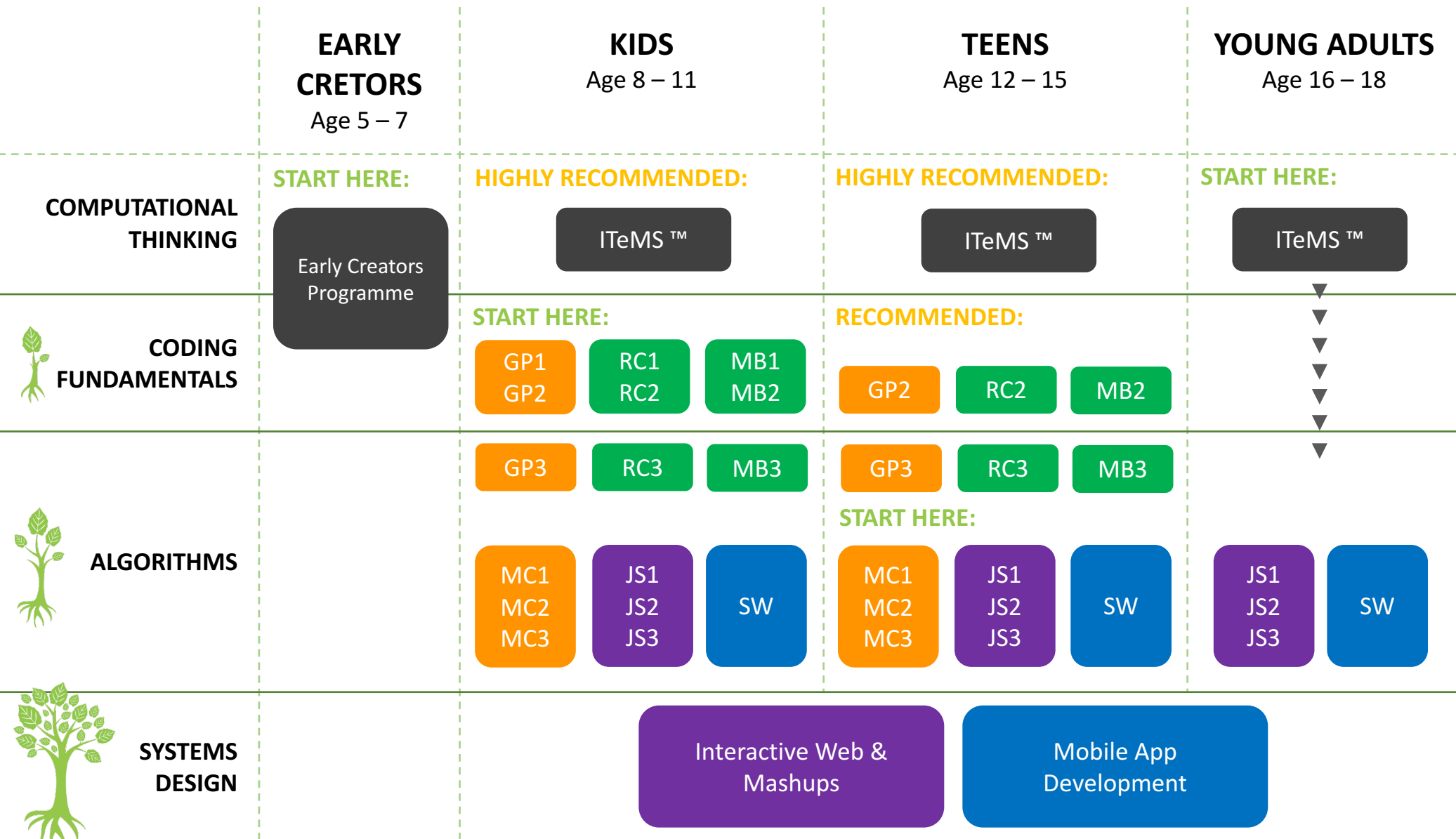


COMPUTATIONAL THINKING

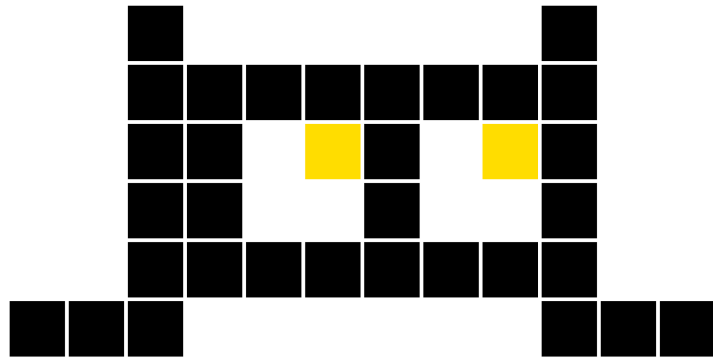
Fundamental CT concepts embedded in all levels of progression



LEARNING ROADMAP



CONTACT



Learn to **C**ode, **C**ode to **L**earn

CODING ACADEMY

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