

SmartLab

Primary Score

Reading the Score: Students rotate as groups of six learners (or three pairs). Each group moves from one island to the next at each rotation. After the first four engagements, they rotate to the first Additional Rotation and Continue rotating around the room.

Substitutions: After multiple sessions in the SmartLab, students will be eager to experience new technologies and systems. Next to each island there are resources to expand students knowledge in the SmartLab. Additional Engagements provides tools for each station, that can be utilized by individual groups of students to learn new technologies.

Martin Luther King Elementary School

30 Student Environment

Ozobot Classroom Kit

Robotics and Control Technology



Essential Learning:

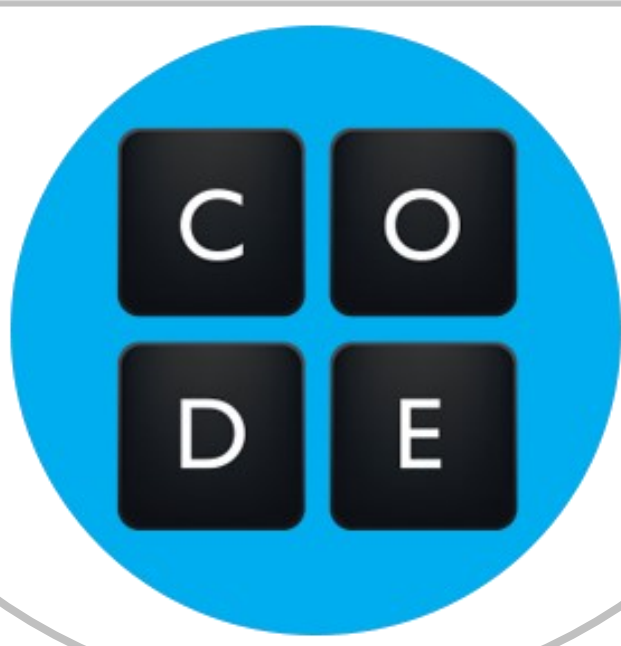
With Ozobot, students begin learning the fundamentals of programming and logic in a tactile environment. Students use Pen and Paper to program their robot to complete complicated tasks.

Software or Kits:

Learning Cards to document student learning.
Ozobot Classroom Kit
Learning Launcher Access / Printed Cards

Hour of Code

Software Engineering



Essential Learning:

Hour of Code is a national initiative to provide students with foundational software engineering skills. Students progress through activities designed to teach them coding and design thinking.

Software or Kits:

Learning Cards to document student learning.
Hour of Code Online activities or apps
Learning Launcher Access / Printed Cards

Snap Circuits Green Energy

Sustainability / Circuitry



Essential Learning:

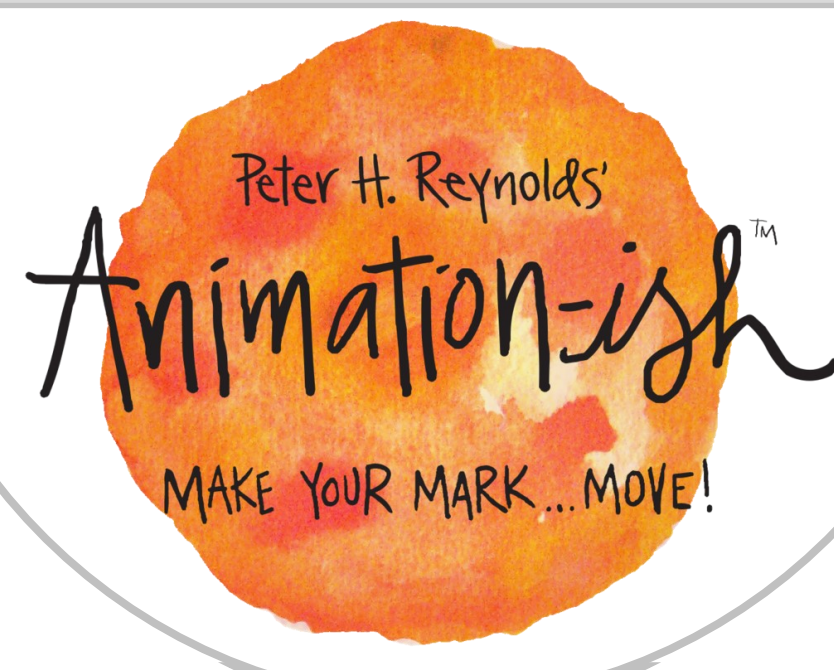
Using Snap Circuits Green Energy allows students to begin engineering simple circuits that incorporate solar, wind, and physical power.

Software or Kits:

Learning Cards to document student learning.
Snap Circuit Green Energy Collection
Learning Launcher Access / Printed Cards

Animationish

Digital Communications



Essential Learning:

Animationish allows students to create flip books and presentations. Activities focus on learning to tell a story and how to share that with an audience.

Software or Kits:

Learning Cards to document student learning.
Animationish (desktop) or Animation Creator (app)
Learning Launcher Access / Printed Cards

GoTemp! Probes: Temperature

Scientific Data and Analysis



Essential Learning:

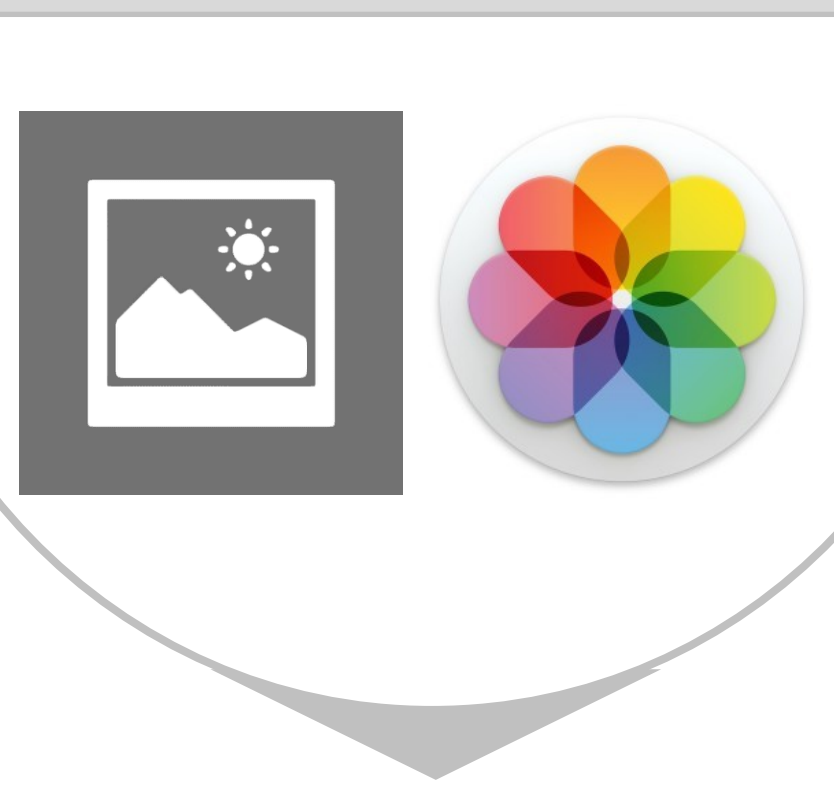
Temperature is a core scientific principal. In these activities, students will explore temperature ranges, and explore how heat is transferred between objects.

Software or Kits:

Learning Cards to document student learning.
Vernier GoTemp! Probes
Learning Launcher Access / Printed Cards

Basic Photo Editing: Photos

Computer Graphics



Essential Learning:

Editing photos is a skill embedded in every presentation and document that we create. Students will explore basic photo editing, and how to add photos to presentations and documents.

Software or Kits:

Learning Cards to document student learning.
Photos (Mac/iPad) or Photos (Windows)
Learning Launcher Access / Printed Cards

Geometric Shapes

Mechanics and Structures



Essential Learning:

Geometry is everywhere in nature. With Geometric Shapes, students begin to explore similarities and differences between simple shapes, and begin to explore the differences between two dimensional and three dimensional objects.

Software or Kits:

Learning Cards to document student learning.
Geometric Shapes Building Kit
Learning Launcher Access / Printed Cards

Climate Kids: Energy Efficiency

Sustainability



Essential Learning:

Climate Kids is a web resource provided by NASA to teach students the basics of climate and energy. Activities focus on energy transformations, greenhouse gasses, and reducing our carbon and energy footprint.

Software or Kits:

Learning Cards to document student learning.
Climate Kids Online Activities
Learning Launcher Access / Printed Cards

Orientation



Initial Engagement:

Begin by orienting your students to the ePortfolio and assessment system. Use the following:
Getting to Know Your SmartLab
ePortfolio Setup
Introduction to Learning Launcher

SmartLab Tour

Orientation

Orientation

Orientation

Orientation

Orientation

ePortfolio

Orientation

Orientation

Office

Digital Communications

Digital Communications

Additional Engagements

Photo Editing



Learning to Animate



Alphabet Soup



SmartLab Heroes



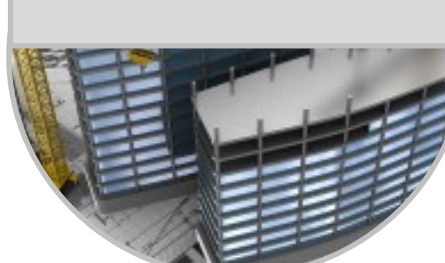
My Hero



The Air We Breathe



Discovering Angles



Whats Your Angle?



Discovering Triangles



Optical Illusions



STEM Careers



How the Body Works

