

# HEART OF AMERICA RESOURCES

## STEAM

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### Science, Engineering & Math

#### [Khan Academy](#)

Comprehensive video lessons and practice in math, biology, physics, chemistry, computer science.

#### [cK-12](#)

Interactive STEM textbooks, simulations, and practice problems.

#### [TeachEngineering](#)

Standards-aligned engineering lessons and activities. Hands-on, project-based.

#### [PhET Simulations](#)

Science and math simulations created by University of Colorado Boulder.

#### [NASA STEM Engagement](#)

Activities, videos, and challenges in space science and engineering.

#### [DiscoverE](#)

Virtual / online engineering challenges, interactive projects.

### Technology

#### [Code.org](#)

Computer science curriculum and Hour of Code tutorials.

#### [Scratch \(Jr\)](#)

App for block-based programming; kids build games, stories, animations.

#### [Blockly Games](#)

Puzzle-style coding with blocks.

#### [MIT App Inventor](#)

Create mobile apps using block-based interface.

#### [Codingal](#)

Quizzes, worksheets, masterclasses, webinars.

#### [SimpleK12](#)

Online teacher training in tech integration and classroom strategies.

#### [Google for Education](#)

Certification and training on Google tools for teachers.

### Art

#### [Art Projects For Kids](#)

Step-by-step art lessons, crafts, coloring, painting projects.

#### [Art Achieve](#)

Several free “Level I” drawing & shading lessons (lines, shapes, simple objects).

[\*\*DIY.ORG\*\*](#)

500+ drawing tutorials at different levels.

[\*\*Emily Drawing\*\*](#)

Hundreds of step-by-step “how to draw” tutorials + printable coloring pages.

[\*\*Art Class TV\*\*](#)

Follow-along video drawing & craft lessons (e.g. animals, objects)