

# BrickLAB STEAMventures: Flight Collection

Grades: K-1, 2-3



**Students:** Groups of 10+

**Contact Hours:**

- Magazine Activities 16+ hours
- Online Extensions 16+ hours

**Recommended Settings:**

- Out-of-school programs
- Classrooms
- Home learning

**Pricing Options:**

- 10-Student Bundle: \$559<sup>95</sup>

Contact a STEM Program Specialist at (800) 429-3110 or sales@edventures.com for custom bundles, quotes and bulk discounts!

**Curriculum Topics:**

- Hot Air Balloons
- Airplanes
- Helicopters
- Rockets

**Assesment:**

Learning targets and answer keys for each activity included in Instructor Guide.

**Pre-Requisites:** None

**Technical Requirements:** None

**Training:**

Professional development webinar training is available. Talk to a PCS STEAM Program Specialist for more information.

**Highlights:**

- Hands-on STEAM learning
- Flexible structure to accommodate in-person, remote or blended learning
- Intentional supports for family engagement

**Logistics & Storage:**

Each individual brick kit comes packaged in a washable mesh bag.

**Materials:**

Each 10-Student Bundle includes:

- Individual Brick Kits: 10
- Sets of Printed Student Materials: 10
- Spiral-bound Instructor Guide: 1

Each Individual Brick Kit includes:

- BrickLAB bricks: 300+
- Brick separator: 1
- Mesh bag for cleaning bricks: 1

Each Set of Printed Student Materials includes:

- BUILD Hot Air Balloons (40 pg): 1
- BUILD Airplanes (40 pg): 1
- BUILD Helicopters (40 pg): 1
- BUILD Rockets (40 pg): 1

**Shipping & Availability:**

Contact a PCS STEAM Program Specialist for shipping options.



# Alignment & Standards

For a complete list of Alignment & Standards make sure to visit the product page.

## Habits of Mind:

16 thinking habits developed by Art Costa and Bena Kallick to empower students to succeed in a 21st-century learning environment.

- Persisting
- Thinking Flexibly
- Striving for Accuracy
- Creating, Imagining, Innovating

## 21st Century Skills:

A set of widely-applicable abilities essential for success in the information age.

- Creativity and Innovation
- Flexibility and Adaptability
- Initiative and Self-Direction
- Productivity and Accountability

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## K-1 Common Core State Standards (CCSS) for English Language Arts Standards:

- CCSS.ELA-LITERACY.L.1.1.B Use common, proper, and possessive nouns.
- CCSS.ELA-LITERACY.L.1.1.E Use verbs to convey a sense of past, present, and future (e.g., Yesterday I walked home; Today I walk home; Tomorrow I will walk home).

## K-1 Common Core States Standards (CCSS) for Mathematics:

- CCSS.MATH.CONTENT.K.CC.A Know number names and the count sequence.
- CCSS.MATH.CONTENT.1.MD.C.4 Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.

## 2-3 Common Core Standards for Mathematics:

- CCSS.MATH.CONTENT.2.NBT.A.1 Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones.
- CCSS.MATH.CONTENT.2.NBT.A.3 Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.

## K-2 Common Core Standards for English Language Arts:

- CCSS.ELA-LITERACY.L.2.4.E Use glossaries and beginning dictionaries, both print and digital, to determine or clarify the meaning of words and phrases.
- CCSS.ELA-LITERACY.RI.2.1 Ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text.

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## Next Generation Science Standards\*

- NGSS K-2-ETS1-2 Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.
- NGSS K-2-ETS1-3 Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.

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