

Hummingbird Loaner Kit Overview

Key Components

4 Premium Kits, each kit includes the following:

- **1 - Bit Controller (Robot brain)**
- **1 - Terminal Tool**
- **1 - Battery Pack (4x AA)**
- **1 - USB Cable (you may need an USB C adapter)**
- **1 - Micro:Bit**
- **Hummingbird Overview Purple Folder**
- 1 - Green, Red, Yellow LED & 2 - Tri-color LED
- 2 - FS5103B Servo & 2 FS5103R Servo
- 2 - Servo Wheels
- 2 - Plastic Block Adapters
- 4 - Servo Extension Cables
- 1 - Light Sensor, Dial Sensor, Distance Sensor, Sound Sensor
- 2 - wire cutters
- 4 - Phillips screwdrivers

Complete [Hummingbird Training](#) then go to [Heartland AEA Library Catalog](#) or call the Heartland AEA library to check it out.

Access this document by scanning the QR Code below 



Link to Document: bit.ly/3ldDq16



Getting Started

1. Programming Languages: [FinchBlox](#) (icon-based) | [BirdBlox](#), [Snap!](#), or [MakeCode](#) (block-based) | [Python](#), [Java](#) (text-based)
2. [Hummingbird Bit Quickstart](#) Quickstart guide for beginning setup.
3. [Hummingbird Bit Software Guidance Chart](#) Select the best programming language based on devices & student age
4. [Hummingbird Bit Learning Portal - Tutorials](#) Select the device, programming language, & program tutorials
5. [Hummingbird Bit Build Tips](#) Instructions and tips for building robots
6. [Hummingbird Bit Printable Student Resources](#) Hardware guide, block descriptions, troubleshooting & coding cards.
7. [COMPUTATIONAL THINKING ASSESSMENT GUIDE](#) - from BirdBrain

Student Activities

[Hummingbird Birdbrain Resources](#) (includes printable instructional materials, printable student materials, and classroom support resources.)
[Birdbrain Professional Development Options](#) //// [BirdBrain Hummingbird Lessons aligned to the Iowa Computer Science Standards](#)

 Questions, missing parts, integration support, troubleshooting support, or need follow up support?

Contact us haeatech@heartlandaea.org