# Carolina Quick Tips®

## All SySTEMs Go with Engino®!

Spend your class time on engineering, not assembly! Engino® is a patented snap-fit connector system that lets students build fully functional, motorized models without tools, screws, or glue. Engino® has grown into one of the most awarded STEM construction systems in the world, spanning everything from foundational mechanics to Arduino®-based robotics. Engino®-based activities support the following:

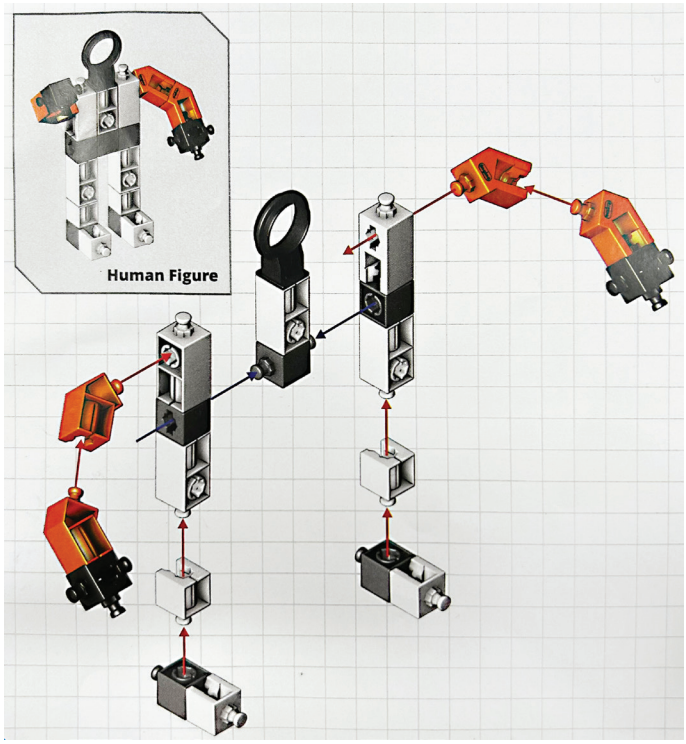
- **Texas TEKS**
  Engineering Design & Problem Solving; Robotics I & II; CTE STEM courses

### Materials Required

An Engino® STEM & Robotics set from www.carolina.com

### Why Invest in Engino®?

1. **Easy on the Budget, Built to Last.** Durable components are compatible across the entire Engino® line, so a single classroom investment keeps paying off as students advance.
2. **Standards-Aligned by Design.** Every set supports the TEKS engineering standards.
3. **One System, Endless Directions.** Mechanics, robotics, renewable energy, structures, or fluid dynamics all snap together on the same connector system. No need to stock five products.
4. **Grows with Your Students.** Sets scale from entry-level simple machines to Arduino®-compatible robotics platforms with real sensors, motors, and programmable controllers, carrying students from first builds to capstone projects.
5. **No Tools, No Frustration.** The patented snap-fit system means students spend class time designing and iterating.




Follow the diagram above to build your own figure

### You Built It. Now Show It Off!

- Thread the loop through the head ring.
- Connect the ends of the loop.
- Attach to a keyring, lanyard, backpack zipper, or even a hall pass.

Instant proof that you build things that work.



### Additional Information

View more information, content links, and products related to this activity at www.carolina.com/takeaways.

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## Engino® Product Reference Chart

Middle and high school Engino® STEM and robotics sets are available at www.carolina.com.

| | Item No. | Standards Alignment | Brief Description |
|---|---|---|---|
| **GinoBot™ Basic Edition** | **756681** | TEKS: Robotics I & II | Programmable 4-wheeled robot with USB, Bluetooth®, and Wi-Fi® connectivity. Codes in KEIRO™, Python®, or C++. |
| **Robotic Challenge: FlexiTrack Puzzle** | **756683** | TEKS: Robotics I & II | Turns the classroom floor into a reconfigurable, robotic coding landscape. |
| **STEM Simple Machines Set** | **756679** | TEKS: Physics—Forces/Motion | Builds 60 working models covering levers, wheels, pulleys, gears, and linkages. |
| **STEM Mechanics: Levers, Linkages, & Structures** | **756675** | TEKS: Physics—Forces/Motion | Explores how levers and linkages increase lifting power and support structures. |
| **STEM Newton's Laws & Inclined Planes** | **756677** | TEKS: Physics—Forces/Motion | Demonstrates Newton's laws and potential/kinetic energy through inclined-plane builds. |
| **STEM & Robotics ERP PRO Set** | **756673** | TEKS: Robotics I & II | Advanced robotics platform with Bluetooth®/USB connectivity for 30+ programmable models. |
| **STEM & Robotics ERP Mini Set** | **756671** | TEKS: Robotics I & II | Entry-level robotics platform with pre-recorded and manual programming modes. |
| **STEM Mechanics: Wheels, Axles, & Inclined Planes** | **756691** | TEKS: Physics—Forces/Motion | Builds 14 models demonstrating how wheels, axles, and inclined planes reduce force. |
| **STEM Fluid Dynamics Set** | **756685** | TEKS: Physics—Fluid Mechanics | Builds 6 models, including a boat and a submarine, to explore buoyancy and hydraulics. |
| **Greenhouse Set** | **756687** | TEKS: Biology—Ecosystems | Builds a 37 × 35 × 25-cm greenhouse model with gear-operated roof flaps. |
| **STEM Mechanics Master Set** | **756693** | TEKS: Physics—Forces/Motion | Combines levers, pulleys, gears, Newton's laws, and solar power in one comprehensive set. |
| **STEM & Robotics Produino™ Set** | **756689** | TEKS: Robotics I & II | Arduino®-based robotics platform with sensors, motors, and a built-in breadboard. |
| **DIY Electronics Ultimate Kit** | **756695** | TEKS: Robotics I & II | Expansion kit with ESP32 controller, sensors, and actuators for any Engino® model. |

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