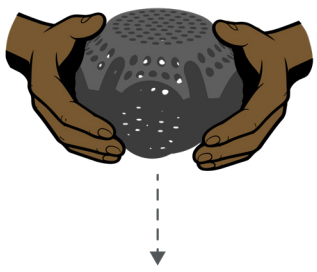
DataSnap™ Comparison Chart

CreXo™

DataSnap Impact Experience

STUDENT EXPERIENCE



- Students build and drop test Impact Ships, using drop data to evaluate and improve their designs
- Durable Impact Ships and Exosuits support repeated testing with classroom consumables

LESSON TOPICS

STANDARD

- Distance and Time
- Speed and Velocity
- Acceleration and Gravity
- Forces and Newton's Laws
- Engineering Challenge: Protect the Astronaut

ADVANCED

- Distance, Time, and Velocity
- Gravitational Acceleration
- Acceleration and Impacts
- Engineering Challenge: Protect the Astronaut
- Forces, Newton's Laws, and Inertia
- Impact Forces
- Parachute Dynamics
- Engineering Challenge: Egg Impact Safety

WHAT IS INCLUDED

STARTER PACK

- 5 Impact Ships
- 5 Exosuits
- DataSnap Motion Sensor

CLASSROOM SOLUTION

- 30 Impact Ships
- 30 Exosuits
- 2 DataSnap Motion Sensors

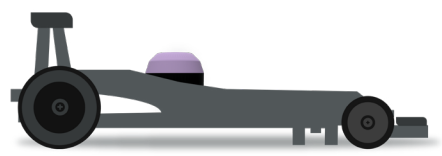
** If you want additional Impact Ships (10) and ExoSuits (10), a Replacement Pack (80211009) is available for $399.*

STARTER PACK $899 | 80211001

CLASSROOM SOLUTION $1,999 | 80211004

DataSnap Air Racer Experience

STUDENT EXPERIENCE



- Students design and test air-powered race cars using real speed and distance data
- The air-powered launch system enables fast, repeated trials for iterative engineering

LESSON TOPICS

STANDARD

- Building and Racing Basics
- Newton's Laws of Motion
- Pneumatic Power and Transfer of Energy
- Weight Distribution
- Wheel and Axle Placement
- Collision Dynamics
- Engineering Challenge

ADVANCED

- Building and Racing Basics
- Newton's Laws of Motion
- Pneumatic Power, Work, and Energy Transfer
- Weight Distribution
- Wheel and Axle Placement
- Aerodynamics
- Collision Dynamics
- Final Engineering Design Challenges

WHAT IS INCLUDED

STARTER PACK

- 2 Air Racer Frames
- 2 Air Racer Customization Kits
- Pneumatic Race System
- DataSnap Motion Sensor

CLASSROOM SOLUTION

- 8 Air Racer Frames
- 8 Air Racer Customization Kits
- Pneumatic Race System
- 2 DataSnap Motion Sensors

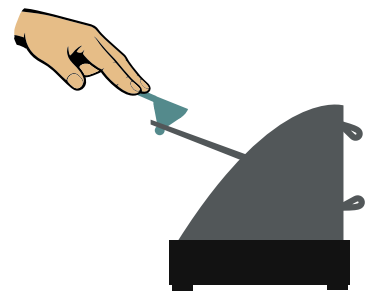
** You can expand the Starter Pack with additional*

STARTER PACK $1,299 | 80211003

CLASSROOM SOLUTION $3,499 | 80211006

DataSnap Projectile Experience

STUDENT EXPERIENCE



- Students explore projectile dynamics, foundational AI concepts, and data-supported predictive modeling
- Customizable catapults let teams collect projectile data, develop predictive data models, and test their accuracy

LESSON TOPICS

STANDARD

- Making Your Catapult Data-Smart
- Pull-Back Angle: Force and Work
- Elastic Bands: Energy
- Arm Length: Velocity
- Launch Angle: Newton's Laws
- Team Challenge

ADVANCED

- Making Your Catapult Data-Smart
- Pull-Back Angle: Force and Work
- Elastic Bands: Energy
- Arm Length: Velocity
- Launch Angle: Newton's Laws
- Team Challenge

WHAT IS INCLUDED

STARTER PACK

- 2 Catapults, each with:
  - 2 Adjustable Launch Arms
  - Tools for Modification
  - 3 Quick-Change Pins
- Heavy-duty plastic storage container
- DataSnap Motion Sensor

CLASSROOM SOLUTION

- 8 Catapults, each with:
  - 2 Adjustable Launch Arms
  - Tools for Modification
  - 3 Quick-Change Pins
- 4 heavy-duty plastic storage containers
- 2 DataSnap Motion Sensors

** You can expand the Starter Pack with additional Starter Packs or the Classroom Solution.*

STARTER PACK $1,099 | 80211002

CLASSROOM SOLUTION $2,999 | 80211005

SHARED COMPONENTS

All Experiences Include

- 2 DataSnap Motion Sensors
- Charging Case with USB-C charging cord and power supply
- Standards-aligned, downloadable curricula (standard and advanced), which include:
  - Student-ready slide presentations
  - Student Engineering Workbook
  - Teacher's Curriculum Guide
- Free DataSnap web app for data analysis (available on chromebooks, computers, phones, and tablets)

NOTE: If you want more sensors to gather more data simultaneously, we have additional

DataSnap Experience Features:

- Students build, test, and iterate on an engineered design
- Hands-on learning paired with real data from the DataSnap Sensor
- Small teams collaborate using lesson slide presentations and Student Engineering Workbooks
- Rapid testing cycles that maintain engagement
- Curricula aligned to NGSS, ISTE, and ITEEA standards
- Critical thinking supported by real-world data