# PLTW Launch
# 2015-16 Equipment and Supplies Price Sheet

**updated 2/25/15**

## iPads and Computers
Students are required to have iPads at a ratio not to exceed 4 students per iPad. One additional
iPad required for the teacher. iPads can be ordered directly from Apple at:       http://www.apple.com/education/ipad
Each teacher must have a computer in addition to an iPad; students are not required to have computers.
Click here for recommended specifications for the iPads and computers.

## iPad Apps (available free of charge via iTunes App Store)
Click here for a list of apps needed on each iPad

## iPad to Projector Connectivity (see vendor options below)
Each teacher will need access to a projector, a screen to project on, and the ability to display an iPad on the projector.
There are two options to connect the iPad to the projector - both of which must be ordered directly from vendors:

**Option 1:** "Reflector" software (can be used on a PC or MAC)

| Vendor | Description | Price |
|---|---|---|
| Air Squirrels | Reflector (wireless connector) | $ 12.99 |

**Option 2:** iPad VGA Adapter (ensure you purchase correct one for your model of iPad)

| Vendor | Description | Price |
|---|---|---|
| Apple | Apple 30-pin to VGA Adapter | $ 29.00 |
| Apple | Lightning to VGA Adapter | $ 49.00 |

## eBooks (must be purchased directly through iTunes and Kindle App)
The below eBooks are available for download from the listed vendors at the shown pricing:
One copy of each eBook will be needed on the teacher's iPad only

| Module | eBook title | Cost Per Download |
|---|---|---|
| K.2 | Newton and Me (2010) by Lynne Mayer, iPad eBook | $ 6.99 |
| 2.1 | Snowmen All Year by Caralyn Buehner, iPad eBook download | $ 6.99 |
| 2.1 | The Mitten by Jan Brett, iPad eBook download | $ 7.99 |
| 2.2 | Who Will Plant a Tree? By Jerry Pallotta, Kindle eBook download | $ 10.49 |
| 4.2 | The Boy Who Harnessed the Wind: Picture Book Edition, by William Kamkwamba, Bryan Mealer, and Elizabeth Zunon, Kindle eBook download | $ 10.99 |

## General Equipment and Supplies Kits (available for order through PLTW)
**Please note that delivery time is 3-4 weeks. All pricing includes processing and shipping**
The following are kits for each module that support a classroom of up to 30 students.
Full kits include all general supplies including durable and consumable goods; refill kits contain consumable items only.
*Kits **do not** include Launch Logs; they can be ordered separately as listed below.*

## Classroom Kits for Initial 12 modules (Currently Available for Order):
*Instructions: Please enter the number of concurrent classes (taught during the same time within a single day) you plan to offer of each
module for the "Full Kits". "Refill kits" can be ordered for additional non-concurrent offerings of a module with the durables being shared.*

| Kit | Description | Price | # Classes | Qty to Order | Total Cost |
|---|---|---|---|---|---|
| 220-3700 | K.1 Structure and Function: Exploring Design - Full Kit (includes Durable Kit 220-4114 and Refill Kit 220-3730) | $ 260.00 | | 0 | $     - |
| 220-3730 | K.1 Structure and Function: Exploring Design - Refill/Consumable kit | $ 135.00 | | 0 | $     - |
| 220-3701 | K.2 Pushes and Pulls - Full Kit (includes Durable Kit 220-4115 and Refill Kit 220-3731) | $ 160.00 | | 0 | $     - |
| 220-3731 | K.2 Pushes and Pulls - Refill/consumable kit | $ 45.00 | | 0 | $     - |
| 220-3702 | 1.1 Light and Sound - Full Kit (includes Durable Kit 220-4116 and Refill Kit 220-3732) | $ 230.00 | | 0 | $     - |
| 220-3732 | 1.1 Light and Sound - Refill/consumable kit | $ 45.00 | | 0 | $     - |
| 220-3703 | 1.2 Light: Observing Sun, Moon, and Stars - Full Kit (includes Durable Kit 220-4117 and Refill Kit 220-3733) | $ 185.00 | | 0 | $     - |
| 220-3733 | 1.2 Light: Observing Sun, Moon, and Stars - Refill/consumable kit | $ 110.00 | | 0 | $     - |
| 220-3704 | 2.1 Materials Science: Properties of Matter - Full Kit (includes Durable Kit 220-4118 and Refill Kit 220-3734) | $ 180.00 | | 0 | $     - |
| 220-3734 | 2.1 Materials Science: Properties of Matter - Refill/consumable kit | $ 50.00 | | 0 | $     - |
| 220-3705 | 2.2 Materials Science: Form and Function - Full Kit (includes Durable Kit 220-4119 and Refill Kit 220-3735) | $ 265.00 | | 0 | $     - |
| 220-3735 | 2.2 Materials Science: Form and Function - Refill/consumable kit | $ 155.00 | | 0 | $     - |
| 220-3706 | 3.1 Stability and Motion: Science of Flight - Full Kit (includes Durable Kit 220-4120 and Refill Kit 220-3736) | $ 220.00 | | 0 | $     - |
| 220-3736 | 3.1 Stability and Motion: Science of Flight - Refill/consumable kit | $ 95.00 | | 0 | $     - |
| 220-3707 | 3.2 Stability and Motion: Forces and Interaction - Full Kit (includes Durable Kit 220-4121 and Refill Kit 220-3737) | $ 125.00 | | 0 | $     - |
| 220-3737 | 3.2 Stability and Motion: Forces and Interaction - Refill/consumable kit | $ 7.50 | | 0 | $     - |
| 220-3708 | 4.1 Energy: Collisions - Full Kit (includes Durable Kit 220-3994 and Refill Kit 220-3738) | $ 150.00 | | 0 | $     - |
| 220-3738 | 4.1 Energy: Collisions - Refill/consumable kit | $ 60.00 | | 0 | $     - |
| 220-3739 | 4.2 Energy: Conversion - Refill/consumable kit* | $ 110.00 | | 0 | $     - |

Subtotal: $ -

**Classroom Kits for New 12 modules (Available for order beginning May 2015):**

| Kit | Description | Price** |
|---|---|---|
| TBD | K.3 Structure and Function: Human Body - Full Kit (includes Durable Kit and Refill Kit) | $ 380.00 |
| TBD | K.3 Structure and Function: Human Body - Refill/Consumable kit | $ 135.00 |
| TBD | K.4 Animals and Algorithms - Full Kit (includes Durable Kit and Refill Kit) | $ 150.00 |
| TBD | K.4 Animals and Algorithms - Refill/consumable kit | N/A |
| TBD | 1.3 Animal Adaptations - Full Kit (includes Durable Kit and Refill Kit) | $ 265.00 |
| TBD | 1.3 Animal Adaptations - Refill/Consumable kit | $ 170.00 |
| TBD | 1.4 Animated Storytelling - Full Kit (includes Durable Kit and Refill Kit) | $ 150.00 |
| TBD | 1.4 Animated Storytelling - Refill/Consumable kit | N/A |
| TBD | 2.3 The Changing Earth - Full Kit (includes Durable Kit and Refill Kit) | $ 340.00 |
| TBD | 2.3 The Changing Earth - Refill/Consumable kit | N/A |
| TBD | 2.4 Grids and Games - Full Kit (includes Durable Kit and Refill Kit) | $ 235.00 |
| TBD | 2.4 Grids and Games - Refill/Consumable kit | N/A |
| TBD | 3.3 Variation of Traits - Full Kit (includes Durable Kit and Refill Kit) | $ 340.00 |
| TBD | 3.3 Variation of Traits - Refill/Consumable kit | $ 100.00 |
| TBD | 3.4 Programming Patterns - Full Kit (includes Durable Kit and Refill Kit) | $ 250.00 |
| TBD | 3.4 Programming Patterns - Refill/Consumable Kit | N/A |
| TBD | 4.3 Input/Output: Computer Systems - Full Kit (includes Durable Kit and Refill Kit) | N/A |
| TBD | 4.3 Input/Output: Computer Systems - Refill/Consumable kit | N/A |
| TBD | 4.4 Input/Output: Human Brain - Full Kit (includes Durable Kit and Refill Kit) | $ 190.00 |
| TBD | 4.4 Input/Output: Human Brain - Refill/Consumable kit | $ 155.00 |
| TBD | 5.3 Infection: Detection - Full Kit (includes Durable Kit and Refill Kit) | $ 225.00 |
| TBD | 5.3 Infection: Detection - Refill/Consumable kit | $ 185.00 |
| TBD | 5.4 Infection: Modeling and Simulation - Full Kit (includes Durable Kit and Refill Kit) | N/A |
| TBD | 5.4 Infection: Modeling and Simulation - Refill/Consumable kit | N/A |

*N/A = There is either no refill kit (example 1.4) or no kit at all (example 4.3) needed for this module.*
***NOTE: Pricing is for budgeting purposes only. Actual pricing to be released in late April 2015.**

**PLTW Launch Logs 5-Packs for Existing 12 Modules (Currently available for order):**
Custom, module-specific workbooks to be utilized per student. Launch Logs are not included in classroom kits and must be ordered separately.

| Item | Description | Price* | # Students | Qty to Order | Total Cost |
|---|---|---|---|---|---|
| 220-3983 | K.1 Structure and Function: Exploring Design - pack of 5 Launch Logs | $ 10.00 | | 0 | $ - |
| 220-3984 | K.2 Structure and Function: Pushes and Pulls - pack of 5 Launch Logs | $ 10.00 | | 0 | $ - |
| 220-3985 | 1.1 Light and Sound - pack of 5 Launch Logs | $ 10.00 | | 0 | $ - |
| 220-3986 | 1.2 Light: Observing Sun, Moon, and Stars - pack of 5 Launch Logs | $ 10.00 | | 0 | $ - |
| 220-3987 | 2.1 Materials Science: Properties of Matter - pack of 5 Launch Logs | $ 10.00 | | 0 | $ - |
| 220-3988 | 2.2 Materials Science: Form and Function - 1 pack of 5 Launch Logs | $ 10.00 | | 0 | $ - |
| 220-3989 | All 3rd - 5th Grade Modules (3.1 through 5.4) - pack of 5 Launch Logs | $ 10.00 | | 0 | $ - |

Subtotal: $ -

**PLTW Launch Logs 5-Packs for New 12 Modules (Available for order beginning May 2015):**
Custom, module-specific workbooks to be utilized per student. Launch Logs are not included in classroom kits and must be ordered separately.

| Item | Description | Price |
|---|---|---|
| TBD | K.3 Structure and Function: Human Body - 5 pack Launch Logs | $ 10.00 |
| TBD | K.4 Animals and Algorithms - 5 pack Launch Logs | $ 10.00 |
| TBD | 1.3 Animal Adaptations - 5 pack Launch Logs | $ 10.00 |
| TBD | 1.4 Animated Storytelling - 5 pack Launch Logs | $ 10.00 |
| TBD | 2.3 The Changing Earth - 5 pack Launch Logs | $ 10.00 |
| TBD | 2.4 Grids and Games - 5 pack Launch Logs | $ 10.00 |

**VEX IQ Kits and Equipment (available for order through PLTW)**
There are two different VEX IQ kits used throughout multiple modules in the Launch program. The kits are suggested at a student to kit ratio of 2:1, not to exceed 4:1.
*Example: 26 students would require no less than 7 kits*

| Item | Description | Price* | # Students | Qty to Order | Total Cost |
|---|---|---|---|---|---|
| 228-3303 | PLTW VEX IQ Construction Kit (used in 3.2, 4.1, and 4.2) | $ 120.00 | | 0 | $ - |
| 228-3304 | PLTW VEX IQ Robot Design Kit (used in 5.1 and 5.2) | $ 365.00 | | 0 | $ - |

Subtotal: $ -

For schools implementing Module 5.2, the following items are required - one per concurrent section

| Item | Description | Price* | # Desired | Qty to Order | Total Cost |
|---|---|---|---|---|---|
| 228-3325 | VEX IQ 3 in Cube Kit (used in 5.2 only) | $ 39.00 | | 0 | $ - |
| 228-2550 | VEX IQ Full Competition Field (used in 5.2 only) | $ 219.00 | | 0 | $ - |

Subtotal: $ -

Grand total: $ -

ARE YOU READY TO ORDER? CLICK HERE FOR INSTRUCTIONS ON HOW TO PLACE AN ORDER