SG EDUCATION

STEAM
BROCHURE
2022

SG EDUCATION
Equipping Young Minds

2022 Brochure

CONTENTS:

All Prices include VAT at 23% and are subject to change. Please see our website www.sgeducation.ie for the most up-to-date prices.

SG MAKERSPACE

What is a Makerspace?

A Makerspace is a collaborative work space inside a school, university, library or public facility for making, learning, exploring and creating. It is designed specifically to be a place for hands-on learning with all the tools for creativity at your finger tips.

The Makerspace concept is seeing huge growth and many schools and similar educational establishments will be creating Makerspaces in the future. SG Education has created SG Makerspace with the aim of providing a complete design, fit and supply service for your creative space whether you need a single equipment station or a complete room refit.

From initial CAD drawings if required, to a finished, furnished and equipped space, we can provide spatial design, equipment selection and provision, product training all other associated requirements to provide the ideal creative environment for your students.

The SG Education team have collaborated with 2 key industry specialists to develop SG Makerspace. Stuart Lawn from Fab Lab Maker Hub and Leo Scarff Design are providing the key area knowledge required for the project.
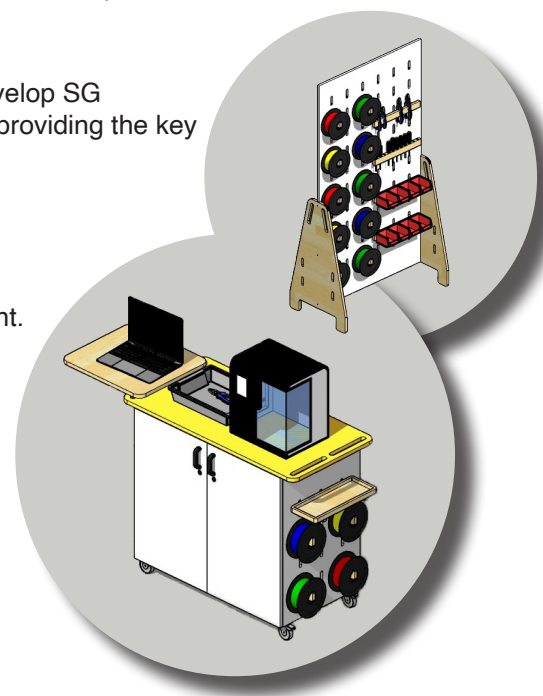
SG Makerspace will:

- Maximize the use of available space.
- Provide a safe, easily managed and shared learning and making environment.
- Simplify tool and material storage as well as equipment placement.
- Allow for growth and development through our modular system.

Our first project with Errigal College in Letterkenny will be completed at the start of October. This is a bespoke project where we are refurbishing the existing Computer Room.

Please have a good look through our brochure and you can also refer to our website www.sgeducation.ie for more information and up to date pricing.

Karl Demmel - SG Education

All Prices Include VAT at 23%

Pegboard
(Slotted Storage System)

3D Printing Mobile Unit

CNC Mill Mobile Unit

Fixed Units

Sheet Material Storage

Laser Cutting Mobile Unit

SG MAKERSPACE
Building The Future

Our newly designed SG Makerspace furniture range is very exciting. Designed by Leo Scarff Design, the standard worktops are made from recycled plastics by Irish company Paltech. The entire product range is designed and made here in Ireland. We are proud to provide a brand new, top quality and functional solution that is both sustainable and Irish made, perfect for your Makerspace.

We have created a system that accomodates all the hardware, tools and materials associated with Makerspace activities while also allowing for the user to adapt to their needs. The slotted pegboard system allows the user to design and manufacture their own bespoke parts and accessories using Makerspace equipment thus adapting to their current and future needs. The modular system allows for growth as physical requirements and funding opportunities change.
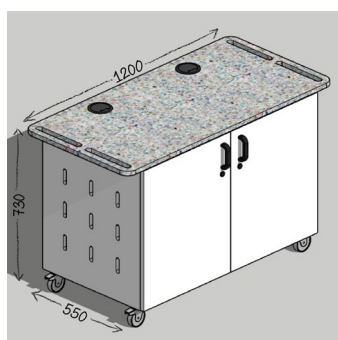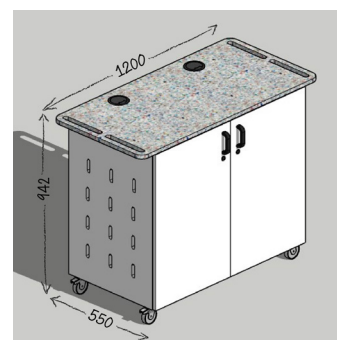

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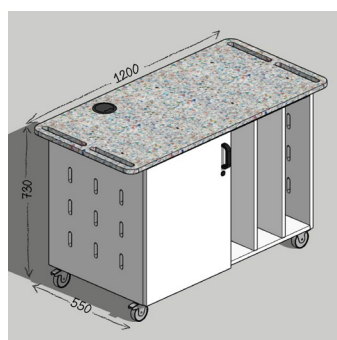
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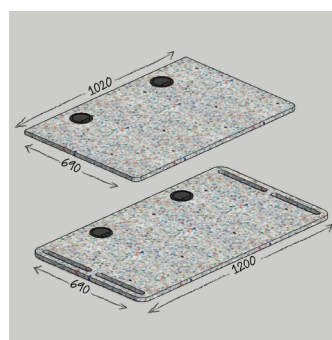
SG MS003

SG MS004

CODE	DESCRIPTION	PRICE
SG MS001	SG Makerspace Mobile Unit H730mm x W1200mm	€1,475.00
SG MS002	SG Makerspace Mobile Unit H730mm x W1200mm- Vertical Dividers	€1,395.00
SG MS003	SG Makerspace H730mm- Deep Top 690mm Mobile (SG LS003A) Fixed (SG LS003B)	€285.000
SG MS004	SG Makerspace Mobile Unit H942mm x W1200mm	€1,700.00
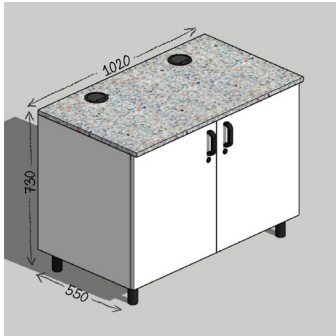
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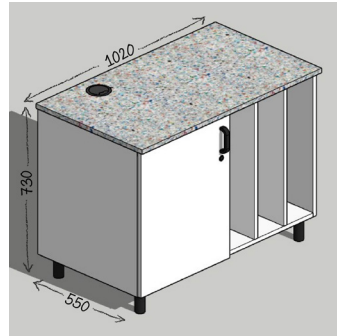
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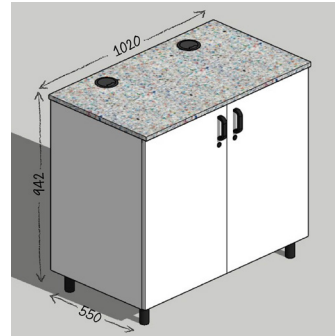
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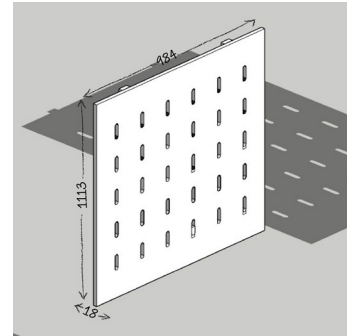
SG MS008

CODE	DESCRIPTION	PRICE
SG MS005	SG Makerspace Fixed Unit H730mm x W1020mm	€1,495.00
SG MS006	SG Makerspace Fixed Unit H730mm x W1020mm- Vertical Dividers	€1,395.00
SG MS007	SG Makerspace Fixed Unit H942 x W1020mm	€1,650.00
SG MS008	SG Makerspace Pegboard H1113mm x W984mm	€310.00
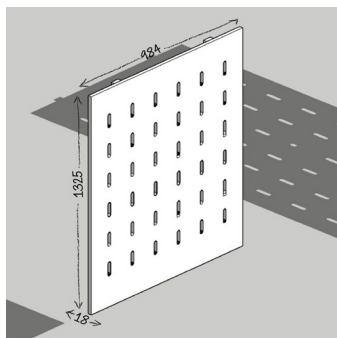
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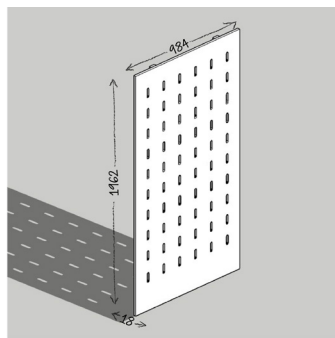
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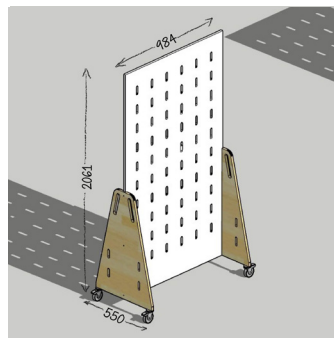
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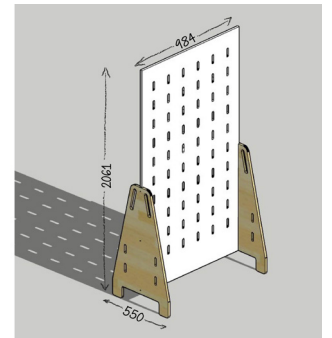
SG MS012

CODE	DESCRIPTION	PRICE
SG MS009	SG Makerspace Pegboard H1325mm x W984mm	€480.00
SG MS010	SG Makerspace Pegboard H1962mm x W984mm	€540.00
SG MS011	SG Makerspace Pegboard H1962mm x W984mm Free Standing Mobile	€975.00
SG MS012	SG Makerspace Pegboard H1962mm x W984mm Free Standing Fixed	€860.00

All Prices Include VAT at 23%
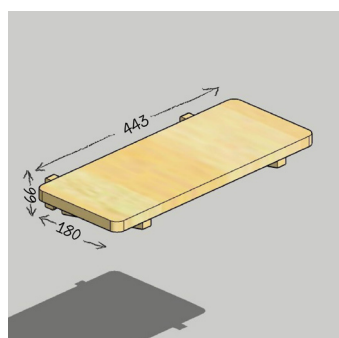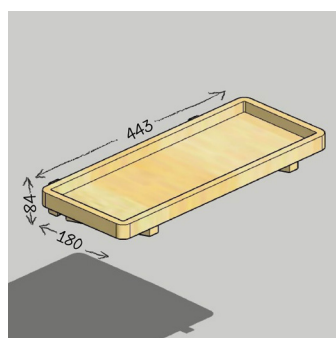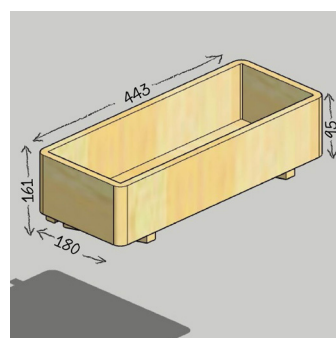
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SG MS014

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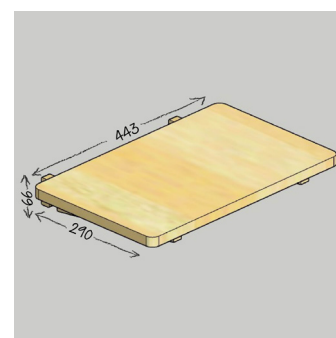
SGMS016

CODE	DESCRIPTION	PRICE
SG MS013	SG Makerspace Shelf W443mm x D180mm	€35.00
SG MS014	SG Makerspace Tray Shelf W443mm x D180mm	€53.00
SG MS015	SG Makerspace Box Shelf W443mm x D180mm	€77.00
SG MS016	SG Makerspace Shelf W443mm x D280mm	€56.00

*Shelving includes integrated brackets for hanging.
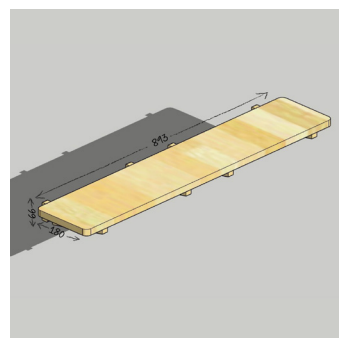
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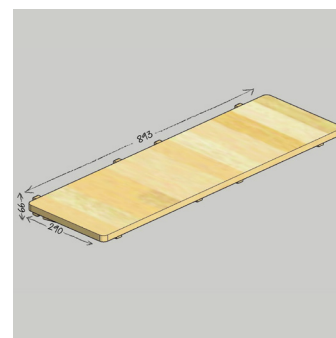
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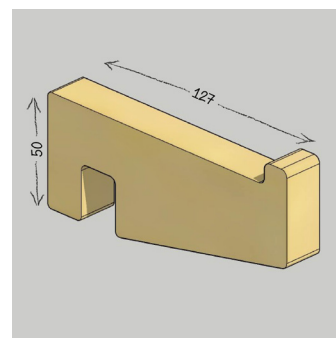
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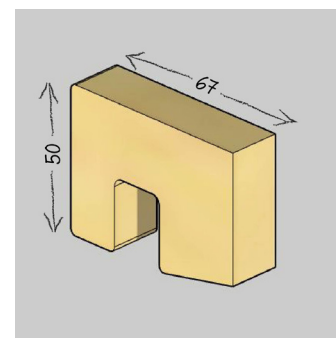
SG MS020

CODE	DESCRIPTION	PRICE
SG MS017	SG Makerspace Shelf W893mm x D180mm	€75.00
SG MS018	SG Makerspace Shelf W893mm x D280mm	€96.00
SG MS019	SG Makerspace Hook- Standard Hook	€12.00
SG MS020	SG Makerspace Hook- for Custom Projects	€11.50
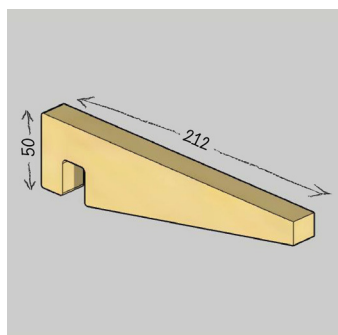
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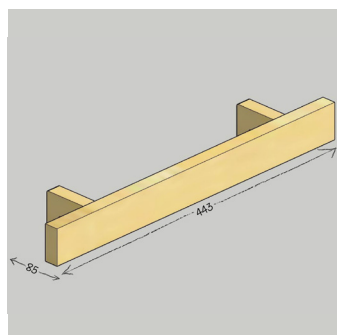
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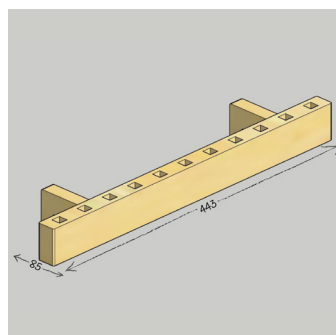
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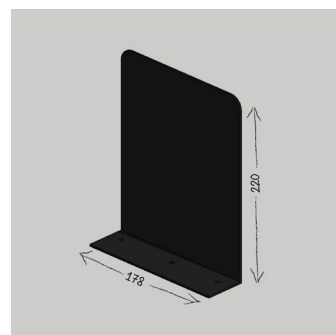
SG MS024

CODE	DESCRIPTION	PRICE
SG MS021	SG Makerspace Hook D180mm Shelf Hook	€18.00
SG MS022	G Makerspace Toolbar - for Pliers / Hammers	€29.00
SG MS023	SG Makerspace Toolbar - for Screwdrivers	€41.00
SG MS024	SG Makerspace Bookprop	€32.00
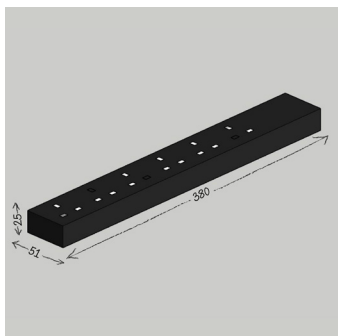
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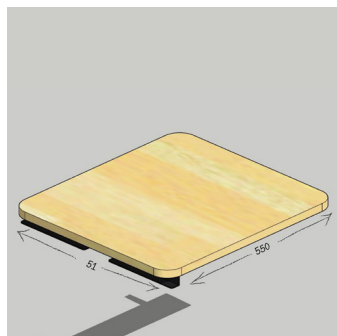
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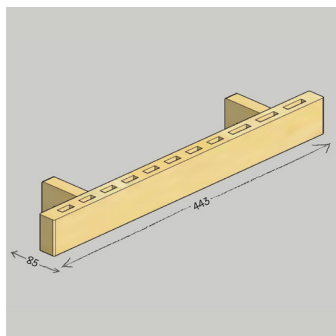
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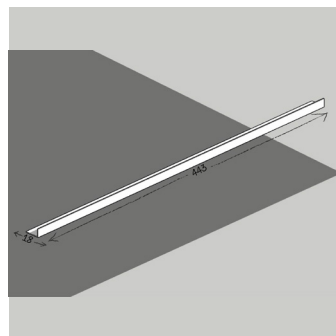
SG MS028

CODE	DESCRIPTION	PRICE
SG MS025	SG Makerspace Power Module (Black 6 Socket)	€34.00
SG MS026	SG Makerspace Laptop Table - Extension Leaf	€110.00
SG MS027	SG Makerspace Toolbar - for Chisels & Files	€41.00
SG MS028	SG Makerspace Metal Profile for Toolbars (Allows standard Gratnells storage boxes to be used).	€24.00

*Please note our SG Furniture is not held in stock at this stage. We will make to order for the first while as we gear up to manage stocks. As world commodity prices fluctuate, pricing needs to be confirmed at order stage.

All Prices Include VAT at 23%

MICRO:BIT

The micro:bit is an open source, credit card sized computer designed by the BBC for use in computer education. It has in-built sensors and buttons and lots of input/output features to allow you interact with your world! There are a vast array of teaching resources available.

micro:bit V2 Loose Single MIC 548

Single BBC micro:bit. A portable, low power, user-programmable computer. Create games, animations or control other devices via Bluetooth Low Energy. Includes board only.

SG micro:bit Starter Kit SG CSSTART

Get started with the new micro:bit V2 and bring your digital ideas to life! This starter kit contains the micro:bit V2 board, USB cable, batteries and battery cage.

SG micro:bit Project Kit SG CSKIT2

Our recomendation to those starting out with the micro:bit. This kit gets you started with programming and hardware interaction. You can build up to six projects straight out of the box. Kit Contents: BBC Micro:Bit, mini breadboard, shielded croc leads, USB to mini USB cable, Red-Green-Amber LED's, clips, battery cage and AAA batteries included.

micro:bit V2 GO MIC 494

A pocket-sized computer that you can code, customise and control to bring your digital ideas to life. Contains: micro:bit, USB cable, battery holder, batteries and quick start guide.

micro:bit V2 Club Class set of 10 MIC 495

Perfect for sharing the micro:bit with friends, the micro:bit club is a 10 pack containing all the pieces needed to enjoy micro:bit in school classes.

CODE	DESCRIPTION	PRICE
MIC 548	micro:bit V2 Loose Single	€18.95
SG CSSTART	SG micro:bit Starter Kit (includes the micro:bit V2)	€20.95
SG CSKIT2	SG micro:bit Project Kit (includes the micro:bit V2)	€24.95
MIC 494	micro:bit V2 GO	€22.95
MIC 495	micro:bit V2 Club Class Set of 10	€205.00

Kitronik: Inventor's Kit KI 560
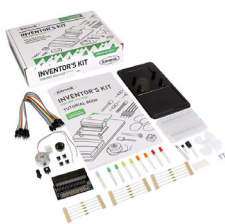
This Inventor's Kit contains everything you need to complete 10 experiments including using LEDs, motors, LDRs and capacitors (no micro:bit included).

Kitronik: Discovery Kit KI 5666

An excellent beginner kit; contains five experiments that start very simply, building up to simulating real world systems as confidence grows.

Kitronik: ARCADE for MakeCode KI 5311
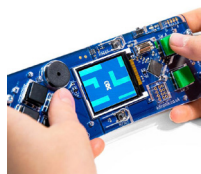
Develop your coding skills with the Kitronik ARCADE, a fully featured programmable gamepad for use with the MakeCode Arcade block editor.

Kitronik: Lesson in a Box Primary Computing Pack KI 5668

The Kitronik Lesson in a Box Primary Computing Pack, an all-in-one Laboratory for learning/delivering classroom lessons again and again (7-10 year olds).

Kitronik: Lesson in a Box Simple Robotics KI 5657

The Lesson in a Box is a complete set of electronics and teaching resources to enable successful cross-curricular lessons with minimal teacher effort.

Kitronik: Lesson in a Box Visual Computing Pack KI 5667

The Lesson in a Box Visual Computing pack for micro:bit, is a complete set of parts & teaching resources to enable successful cross-curricular lessons.

Kitronik :MOVE Mini Buggy Kit KI 5652   *Get more from :MOVE mini with Kitroniks :MOVE mini add ons.

The :MOVE mini is a 2 wheeled robot that is suitable for autonomous operation, remote control projects via a Bluetooth application or being controlled using a second BBC micro:bit as a controller via the microbit's radio functionality.

CODE	DESCRIPTION	PRICE
KI 5603	Kitronik: Inventor's Kit for the BBC micro:bit	€29.95
KI 5666	Kitronik: Discovery Kit for the BBC micro:bit	€14.95
KI 5311	Kitronik: ARCADE for MakeCode Arcade	€49.95
KI 5668	Kitronik: Lesson in a Box Primary Computing Pack	€599.00
KI 5657	Kitronik: Lesson in a Box Simple Robotics for micro:bit	€499.99
KI 5667	Kitronik: Lesson in a Box Visual Computing Pack for micro:bit	€499.99
KI 5652	Kitronik :MOVE mini buggy kit Mark 2 (excl micro:bit)	€39.95
KI 5670	Kitronik Tipper Trailer Add On For :MOVE mini Mk2	€17.95
KI 5623	Kitronik Servo:Lite board for :MOVE mini	€14.95
KI 5629	Kitronik :MOVE mini Line Following Board	€8.95
KI 5658	Kitronik :MOVE mini Bumper	€2.45

All Prices Include VAT at 23%
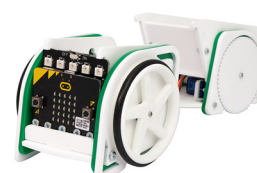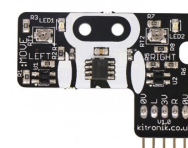
ElecFreaks Smart Science iot Kit EF08203

Build projects like air quality monitoring, environmental noise detection, an environmental quality monitoring station, automatic irrigation detection, a self-defense monitoring station, and more.

Elecfreaks Smart Home Kit EF08197

Use the smart home kit to drive intelligent devices in your house such as a smart fan and voice activated lights. The kit contains temperature, sound, crash, moisture and light sensors as well as a relay, a DC motor, a 180° Servo and an OLED screen. Create your own smart home!

ElecFreaks Smart Health Kit EF08256

The Smart Health Kit can be used to create a UV light detector, a good sitting posture reminder, an alcohol detector ad even a smart rubbish bin! A scientific way to maintain and create healthy living habits.

ElecFreaks Smart Agricultural Health Kit EF08254

Build an ecological greenhouse, repel insects using a smart machine, monitor the level of water in your pond and create lots of other projects with the Smart Agricultural Health Kit. Learn about the use of information technology in agriculture.

ElecFreaks Experiment Box EF08200

Includes traditional components such as a temperature sensor, photocell, servo, motor, and LEDs. But also contains electronic components such as the MOSFET transistor, different values of resistors, and a trimpot to combine circuit design with programming. Use make-code - micro:bit's graphic programming language, to control these components or learn the basics of circuit design without the micro:bit.

ElecFreaks Tinker Kit EF08183

Tinker Kit is sourced from Singapore's training organization TINKER ACADEMY which has a professional team and a strong academic background. A variety of octopus sensors and lots of project tutorials to help you create dozens of amazing digital maker projects!

CODE	DESCRIPTION	PRICE
EF08203	ElecFreaks Smart Science IoT Kit (without micro:bit)	€89.95
EF08197	Elecfreaks Smart Home Kit (without micro:bit)	€70.00
EF08256	ElecFreaks Smart Health Kit (without micro:bit)	€79.95
EF08254	ElecFreaks Smart Agricultural Health Kit (without micro:bit)	79.95
EF08200	ElecFreaks Experiment Box for micro:bit (without micro:bit)	€59.95
EF08183	ElecFreaks Tinker Kit (without micro:bit)	€64.95
STR SBESB1ENV1	Strawbees Steam Starter Kit	€39.95
STR SBESCIENV1	Strawbees Steam Classroom Kit	€395.00
STR SRIMB1ENV1	Strawbees Robotic Inventions Kit - Single Pack	€55.00
STR SRIMB10ENV1	Strawbees Robotics Inventions Kit - Classroom Kit	€399.95

Strawbees Kits

Strawbees is an amazing online ecosystem offering curriculum-aligned, class-ready lessons and resources, plus teaching guides and development tools for teachers. The Robotics Inventions Kit integrates the micro:bit using the playful world of Strawbees Steam, to add robotic capabilities. Both kits are available as single starter sets or classroom sets, they also include a one year license for access to Strawbees Classroom.

Add On Components: Games

CODE	DESCRIPTION	PRICE
KI 5642	Kitronik STOP:bit - Traffic Light for BBC micro:bit	€4.95
KI 5626	Kitronik GAME ZIP 64 for the BBC micro:bit	€48.75
KI 5639	Kitronik :GAME ZIP 64 Laser cut cover - Clear	€5.85
PIM KBOT005	Meowbit - Codable Console for Microsoft Makecode Arcade - Blue	€49.95
KI 5650	Kitronik :VIEW text32 LCD Screen for the BBC micro bit	€25.00
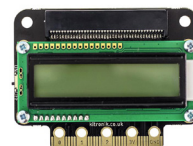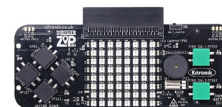
Add On Components: Boards

KI 5601B	Kitronik Edge Connector Breakout Board for BBC micro:bit	€6.45
EF03406	ElecFreaks motorbit for micro:bit (motorbit)	€17.50
EF03415	Elecfreaks sensor:bit for micro:bit (sensorbit)	€8.50
EF03426	ElecFreaks iot:bit for micro:bit	€16.95
KI 5651	Kitronik Terminal Block Breakout for BBC micro:bit	€13.95
KI 5678	Kitronik Clippable Detector Board V1.0	€6.95
PIM 355	Pimoroni enviro:bit Add-On for the BBC micro:bit	€29.95
KI 5609	Kitronik Prototyping System for the BBC micro:bit	€17.95
KI 2446	Mini Prototype Breadboard	€2.95
KI 5693	Kitronik Compact All in One Robotics Board for micro:bit	€23.95
KI 5655	Kitronik Klip Motor Driver for BBC micro:bit	€19.75
KI 5698	Kitronik Compact Motor Driver Board for the BBC micro:bit	€16.35
KI 5694	Kitronik Compact 16 Servo Driver Board for the BBC micro:bit	€13.95
KI 5673	Kitronik Simple Servo Control Board for BBC micro:bit	€11.95
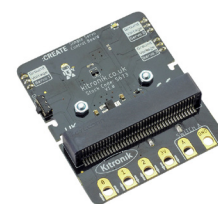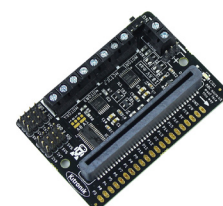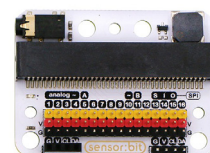
Add On Components: Sensors

KI 46153	Grove - Ultrasonic Distance Sensor	€10.95
KI 56107	Mini Prong Soil Moisture Sensor for BBC micro:bit	€3.75
KI 5647	Prong soil moisture sensor for the Micro:bit - V1 & V2	€4.45
KI 46149	Grove PIR Movement Sensor	€13.95
MONK 072	Monkmakes Sensor Board for micro:bit	€12.95

*You can shop our entire range of micro:bit and accessories on our website: www.sgeducation.ie

All Prices Include VAT at 23%

Add On Components: LEDs

CODE	DESCRIPTION	PRICE
KI 3...	Standard Diffused LED 5mm Single (KI 3504 Red, KI 505 Green, KI 3567 Orange)	€0.17
KI 3501	Standard Diffused LED 3mm 275mCd Red sgl	€0.17
KI 3503	Standard Diffused LED 3mm 1250mCd Yellow Sgl	€0.17
KI 3565	Standard Diffused LED 3mm 500mCd Blue Sgl	€0.20
KI 3502	Standard Diffused LED 3mm 35mCd Green Sgl	€0.17
KI 2327	LED Starter Kit	€24.95
KI 5625	ZIP Halo for the micro:bit	€16.95
KI 35135	ZIP Circle - 12 ZIP LEDS	€7.75

Add On Components: Motors

CODE	DESCRIPTION	PRICE
KI 2565	Mini 180 Degree Resin Gear Servo SG90	€6.25
KI 2589	Mini 360 Degree Continuous Rotation Servo FS90R	€8.25
KI 2595	Linear Actuator	€9.50
KI 2547	Right Angle Geared Hobby Motor	€3.50
KI 2542	Mid 180 Degree Resin Gear Servo S3003	€10.50
KI 25105	Clippable Servo	€7.95

Add On Components: Cables & Leads

CODE	DESCRIPTION	PRICE
KI 2271	Battery Cage 2xAAA with JST Connector	€1.75
KI 5622	Audio Cable for BBC micro:bit	€2.95
KI 4128-40	Jumper Wires 20cm Male / Female - 40 Pack	€3.95
KI 4110-40	Jumper Wires 20cm Male / Male - 40 Pack	€3.95
KI 2480	Alligator Clip with Pigtail - 4 Pack	€5.95
KI 2407	Crocodile Leads - 10 Pack	€4.10
KI 4154	Noodle Cable 1m USB Type-A to Micro-B USB	€2.50

Add On Components: Miscellaneous

CODE	DESCRIPTION	PRICE
KI 4133	Straight Single Row PCB pin headers 2.54mm 36-way	€0.45
KI 56102	MI:pro Protector Case for the BBC micro:bit	€5.35
KI 5508	Styrofoam- Craft Foam 50mm x 600 x 600mm p/sht	€34.95
KI 2801	Quartz Clock Movement	€2.75

*You can shop our entire range of micro:bit and accessories on our website: www.sgeducation.ie

LASER CUTTING

The ultimate flexible rapid prototyping tool. Laser Cutting Machines can utilise the widest range of materials including; acrylic, wood, leather, rubber and more.

CODE	DESCRIPTION	PRICE
FLUX BEAMO	Flux Beamo Laser Cutter 30W	€2,750.00
FLUX BEAMBOX	Flux Beambox Laser Cutter 40W	€4,325.00
FLUX BEAMBOX PRO	Flux Beambox Pro Laser Cutter 50W	€5,550.00
FLUX HEXA	Flux HEXA Laser Cutter 60W	€8,250.00
FLUX BEAMAIR	Beam Air Filter Extractor for Flux Lasers	€1,325.00
BOFA ORACLE	BOFA AD Oracle IQ Laser Extractor	€2,750.00
TL 406080	Thinklaser Lightblade Laser 80W	€12,700.00

Flux Laser Cutters

Sleek, modern and compact, **Flux** lasers are designed to sit beautifully in any school or workshop space. Flux lasers use Smart technology with camera , wifi, internal cooling and easy to use software – it's a laser revolution!

The Flux BeamAir provides an extra layer of filter for extra protection and cleaner air for the Beamo, Beambox and Beambox Pro, while the BOFA Fume Extractor is required for the Hexa model.

Thinklaser Lightblade Laser 80W TL 406080

The Lightblade package has been designed to offer maximum flexibility and performance from day one, with minimum hassle and no nasty surprises. The standard package includes everything you need to start laser cutting: Closed loop water chiller, a cutting table of 400 x 600mm, an air pump, three lenses for dedicated engraving or thick material processing, tube replacement if the tube fails inside the warranty period, an optics cleaning kit and training on site.

Laser Consumables   *See website for complete list of consumables.

KI 3209	3mm Poplar Laser Plywood 600mm x 400mm sheet	€7.95
KI 3210	6mm Poplar Laser Plywood 600mm x 400mm sheet	€11.50
KI 3211	3mm Laser Compatible Medite MDF 600mm x 400mm sheet	€2.95
KI 3219	4mm Oak Veneered MDF 600mm x 400mm sheet	€13.95
KI 432..	3mm Acrylic Sheets (Cast) Range of Colours 600mm x 400mm sheet	€8.95
KI 43199/ KI 43200	5mm Acrylic Sheets (Cast) Black OR White 600mm x 400mm sheet	€13.95

All Prices Include VAT at 23%

3D PRINTING

3D Printing opens up a world of new possibilities for learning in the classroom. 3D Printing works by starting with a digital model in a 3D CAD (Computer Aided Design) file and then creating a physical three-dimensional object. The 3D printer builds the object by adding one layer at a time, 2D layer by 2D layer, until it is completely designed and finished according to the design criteria from the original CAD file.

Flashforge Adventurer 4 3D Printer FLASH ADVENTURER 4

The Flashforge Adventurer 4, is the perfect printer for schools. It supports large volume printing, auto leveling, and supports multiple-machines controlled to one computer, catering for printing needs of hobbyists, small businesses and schools.

The printer is ready to use out of the box and is supplied with a 1kg PLA filament spool in the box allowing the user to get started quickly. An improved nozzle swap functionality allows user to swap nozzles without having to power down the unit.

Flashforge Creator 3 Pro Dual Extrusion 3D Printer FLASH CREATOR 3PRO

The Creator 3 Pro is our preferred dual extruder 3D printing system for schools, hobbyists and small enterprises.

Optimised for high-demand engineering materials and ensure smooth extrusion of these materials. Leveling sensors are reconfigured for higher accuracy with updated components. The Creator 3 Pro now greatly improves the build platform's temperature heat-up speed. This provides a much quicker turnaround time for a job print. FlashForge Creator 3 Pro is your new desktop workhorse.

Features: Independent dual extruders, Auto bed leveling & auto-calibration in Z-axis, Intelligent door sensor, Filament detection, Slicing software, Removable flexible build platform, Built-in camera, Cloud printing, Power conservation and HEPA air filtration.

CODE	DESCRIPTION	PRICE
FLASH ADVENTURER 4	Flashforge Adventurer 4 3D Printer	€1,295.00
FLASH CREATOR 3PRO	Flashforge Creator 3 Pro Dual Extrusion 3D Printer	€3,250.00

Ultimaker 2+ Connect 3D Printer ULTI 2+C
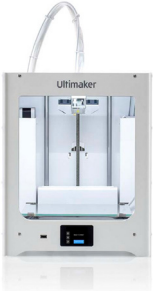
Sometimes single extrusion simplicity is all you need. The Ultimaker 2+ Connect builds upon the award-winning benchmark of its predecessor, to add intuitive operation and deeper software connectivity.

Build volume: 223 x 220 x 205mm.

Ultimaker S5 3D Printer ULTI S5
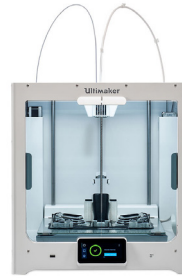
Built to run continuously and maximize uptime. Its best-in-class technical specifications deliver performance you can rely on.

Build area is 330 x 240 x 300mm.

Ultimaker S3 3D Printer ULTI S3
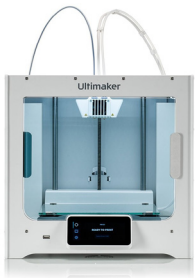
An outstanding and compact dual extruder 3D Printer. Can print an enormous range of materials including;
composites, engineering plastics and nylon.

Build area is 230 x 190 x 200mm.

Ultimaker S5 Air Manager ULTI 217950

Improves the Ultimaker S5 3D printing workflow and efficiency. With a connected Air Manager, the Ultimaker S5 is enhanced with UFP filtering and optimized material compatibility.

| CODE	DESCRIPTION	PRICE
ULTI 2+C	Ultimaker 2+ Connect 3D Printer	€2,895.00
ULTI S5	Ultimaker S5 Dual Extrusion 3D Printer 3D Printer	€7,899.00
ULTI S3	Ultimaker S3 Dual Extrusion 3D Printer	€4,899.00
ULTI 225628	Ultimaker 2+ Connect Air Manager	€495.00
ULTI 217950	Ultimaker S5 Air Manager	€950.00
DREMEL 3D45	Dremel 3D45 3D Printer	€2099.00
MFS1V2	Matter and Form MFS1V2 Desktop 3D Scanner	€995.00

Dremel 3D45 3D Printer DREMEL 3D45

The perfect printer for design creations and prototyping with a variety of filament types. The printer has Wifi connectivity, built-in HD camera and comes with included Dremel slicing software to manage your prints remotely. You can also print via USB. It is safe for the classroom, with a closed build area with optimised cooling and filtration system to keep out dust and avoid fumes.

Matter and Form MFS1V2 Desktop 3D Scanner MFS1V2

The perfect companion to a 3D Printer, it is designed to integrate seamlessly into your workflow. Simply scan, mesh and export your creation to be used with any 3D Printer in the world. Students working with 3D printers now have the speed, accuracy, and ownership to extend their ideas further.

All Prices Include VAT at 23%

Flashforge PLA Filament 1kg 1.75 Range

PLA (Polylactic Acid) filament is the most suitable filament for use in schools. It has easy accessibility, greater heat resistance, a simple post-production process, and fits almost all 3D designs. Flashforge PLA filament is odour and bubbles-free, compatible with 99% FDM 3D Printers in the market.

Available Colours: Black, Blue, Green, Orange, Silver, Purple, Red, White and Yellow.

Flashforge ABS Pro Filament 1kg 1.75 Range

ABS Pro Filament, with improved mechanical properties, better handles problems of model shrinkage, printing odour and requirement print temperature. High tensile strength: Fit for printing functional objects to tolerate high impact pressure and high temperatures.

Available Colours: Black, Blue, Red, Silver and White.

CODE	DESCRIPTION	PRICE
FLASH PLA *'colour name'*	Flashforge PLA 1kg 1.75 Range	€25.00
FLASH ABS *'colour name'*	Flashforge ABS 1kg 1.75 Range	€25.00

3Dom PLA 2.85 1kg Range

PLA Filament. Suitable for Ultimaker Printer range. Available Colours: Midnight Black (E1100), Snow White (E1101), Ocean Blue (E1102), Fire Engine Red (E1103), Clearly Natural (E1105), Daffodil Yellow (E1108), Tangerine Orange (E1106), Island Fuchsia (E1112) , Electric Light Blue (E1113), Grass Green (E1104), Industrial Grey (E1107), Light Brown (E1144) and Dark Green (E1145).

Dremel PLA 1.75 Range

Dremel PLA is a high-quality PLA designed for reliability and ease of printing with the Dremel 3D45 3D Printer. It has a high softening temperature to minimize risk of nozzle jams while maintaining print quality. Colours available: White (PL01JA), Black (PL02JA), Red (PL03JA), Orange (PL04JA), Purple (PL05JA), Blue (PL06JA), Green (PL071JA), Silver (PL10JA), Gold (PL11JA), Translucent White (PL12JA), Pink (PL09JA) and Yellow (PL08JA).

Dremel Digilab 3D Printer 3D40 Flex Build Tape

Using a build tape on your Dremel Digilab 3D40 FLEX 3D printer helps parts stick to your 3D printer's flexible build plate when you're printing, and makes removing 3D prints easier when your prints are done.

CODE	DESCRIPTION	PRICE
3DOM E11...	3Dom PLA 2.85 1kg Range (Suitable Filament for Ultimaker Printers)	€34.99
DREMEL BT03JE	Dremel Digilab 3D Printer 3D40 Flex Build Tape	€35.00
DREMEL PL...	Dremel PLA 1.75 Range	€37.95

CREATIVE TECH

CRICUT:

Cricut makes smart cutting machines that work with an easy-to-use app to help you design and personalize almost anything. You can use Cricut machines to cut, draw, emboss, and engrave. The possibilites are endless as you can use an enormous amount of materials such as card, paper, vinyl, HTV vinyl, leather, cork, balsa wood and more!

You can easily design labels, stickers, cards, t-shirts, even your own mug! Check out our full Cricut range online.

CODE	DESCRIPTION	PRICE
CRI 2007992	Cricut Joy	€199.99
CRI 2008335	Cricut Maker 3	€479.99
CRI 2007472	Cricut Easypress Mini	€69.99
CRI 2005552	Cricut Easypress 2	€189.99
CRI 2008736	Cricut Mug Press	€199.99
CRI 2008760	Cricut Essential Tool Set	€58.99
CRI 2003847	Cricut Mixed Machine Mats (3)	€32.50
CRI 20086..	Cricut Smart Vinyl Range	€9.99

CRICUT JOY
CRI 2007992

Step away from your inspiration boards and turn your best intentions into action with a little help from Cricut Joy, your DIY best friend.

Cricut Maker 3
CRI 2008335
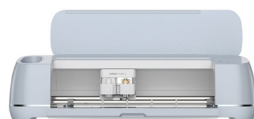
Unleash your creativity with the power, versatility and speed of Cricut Maker 3, the ultimate smart cutting machine.

Cricut Easypress Mini CRI 2007472

Cricut EasyPress Mini makes professional heat transfer results possible for even your most shapely objects & projects

Cricut Easypress 2
CRI 2005552

Combines the speed of a heat press and the convenience of an iron, EasyPress 2 gives you fast, effortless results that last, even after repeated washes.

Cricut Mug Press
CRI 2009736

Create your own mug design using Cricut Infusible Ink materials, attach it to your mug, and let the press do the rest!

Essentials Tools Kit CRI 2008760

This 7-piece set comes with just about every tool needed for Cricut crafting.

Machine Mats (3)
CRI 2003847
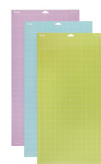
Each reusable mat holds your material in place as it's cut.

Smart Vinyl
CRI 20086..

Wide range of colours. Dishwasher friendly and Weather-resistant. 13" x 3 ft.

All Prices Include VAT at 23%

MULTI-FUNCTION MACHINE:

Snapmaker A350T 3 in 1 3D Printer Bundle

The Snapmaker 2.0 A350T 3 in 1 modular system is powerful and customisable, featuring everything you need to start your maker journey. 3D Printing, CNC and laser moulds make the Snapmaker A350T a perfect machine for every maker. This enclosure bundle means you get the added benefits of reduced fumes and even more reduced noise!
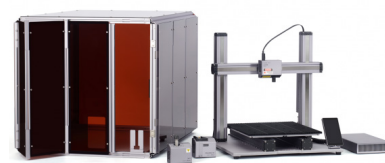
CODE	DESCRIPTION	PRICE
SNAP A350T	Snapmaker A350T 3 in 1 3D Printer Bundle	€2,750.00

VACUUM FORMING:

Mayku Formbox

The Mayku FormBox is a desktop vacuum former that brings your ideas to life. It works with any vacuum cleaner and a whole selection of different materials. Seeing those big ideas come to life never seemed so simple. The FormBox has an internal auto-vacuum system, just plug your vacuum cleaner into the FormBox port and the suction will start as and when you need it. Use it to make moulds in minutes with no additional software or digital model manipulation needed.
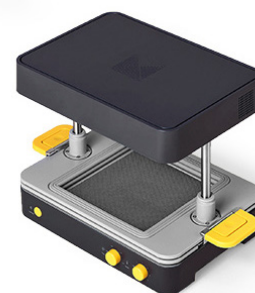
MAY 100928

MAY 100929

MAY 100930

MAY 100931

MAYKU	Mayku Formbox - Vacuum Former	€850.00
MAY 100928	Mayku Cast Sheets (20)	€37.95
MAY 100929	Mayku Form Sheets (30)	€37.95
MAY 100930	Mayku Standard Sheets 0.5mm (20)	€39.95
MAY 100931	Mayku Standard Sheets 1mm (20)	€49.95

PYROGRAPHY:

Duratool Pyrography Kit

Pyrography is the art of burning designs into wood, or leather or any surface that reacts to heat. The Duratool is the ideal tool for creative, decorative projects using patterns or to express your style freehand!

Kit contains: wood-burning iron, hot knife, branding tips, wood-burning tips, pattern transfer tip, as well as a sturdy container box. Selectable power settings to accomplish different temperature needs (10W or 30W)

DUR D03294	Duratool Pyrography Kit	€25.95

ROBOTICS & VR

Edison V2.0 Robot EDISON 46125

The Edison robot is a powerful, engaging tool for teaching children computational thinking and computer programming in a hands-on way.

A complete STEAM teaching resource for coding and robotics education for students from 4 to 16 years of age.

Sphero Bolt Sphero K002ROW

Sphero BOLT's programmable 8x8 light matrix opens up an endless array of coding and gaming capabilities. Use advanced sensors to track speed, acceleration, and direction, or drive BOLT without having to aim your robot thanks to the compass. BOLT also features infrared communication, allowing your robot to "talk" with other BOLTs.

MERGE Cube MER ARC01

Expand your STEAM Programme with hands-on mixed reality tools - Broaden your STEAM offerings with projects that use mixed reality technology to unlock new ways to learn, create, and share.

Hold and place 3D objects in the real world.
Teach STEAM concepts with simulations and 3D models.
Students can upload and share their own 3D creations

CODE	DESCRIPTION	PRICE
EDISON 46125	Edison V2.0 Robot	€79.95
EDISON 46127	Edison Robot Creators kit - Edcreate1	€49.95
MER ARC01	MERGE Cube	€30.95
MER VRG01	MERGE VR Goggles	€51.95
CM WHEELSON	CircuitMess Wheelson Build & Code AI Robot Car	€139.95
CM JAYD 1	CircuitMess Jay-D Build & Code DJ Mixer	€139.95
MAK 100976	Makey Makey Classic	€63.95
EROMSMS7N1	RoboTori Jodie	€175.00
Sphero M001BRW	Sphero Mini Robot	€61.95
Sphero K002ROW	Sphero Bolt	€275.00
Sphero K002EDU001	Sphero Bolt - Corrugate 15 Pack	€2,395.00

All Prices Include VAT at 23%

Beyond science and engineering principles, **VEX** encourages creativity, teamwork, leadership, and problem solving among groups. It allows educators of all types to engage and inspire the STEAM problem solvers of tomorrow!

Each year VEX Robotics hosts the worlds largest Robotics Competition, which challenges students to design and build a robot in order to compete in a challenge style game. These competitions are designed for VEX IQ at Primary Level and VEX V5 at Secondary Level. Irish Regional and National Finals are organised through partners MTU, ATU Letterkenny, Galway & Sligo, Dundalk IT, Offaly County Council, Carlow IT and Mary Immaculate College.

GENERAL CLASS USE:

VEX 2696705
VEX GO Kit with Storage Boxes

VEX GO is an affordable STEAM construction system that taps into children's natural inquisitiveness. VEX GO utilises the VEX IQ plastic construction system and adapts it for primary students.

VEX 2487611
VEX 123 Robot (Red) and Coder

VEX 123 is an interactive, program-mable robot that takes Computer Science and Computational Thinking off of the screen and brings them to life. Suitable for ages 5-8 years

COMPETITION RANGE:

VEX 2283660
VEX IQ Super Kit

The Super Kit is an all encompassing introduction to STEAM and robotics. VEX IQ robots can be immediately driven using the hand held VEX Controller and built-in programs. Robots can be programmed.

VEX 2287506
VEX IQ 2022- 2023 Slapshot Game

VEX IQ Primary School Game for 2022. All the Field Elements & Game Objects needed to build a complete VIQC Slapshot field.
Note: VEX IQ Challenge Field Perimeter & Tiles are NOT included.

VEX 2767120
VEX V5 Classroom Super Kit

The V5 Classroom Super Kit engages students by bringing maths, engineering, and computer science classes to life through hands-on building and programming.

VEX 2767500
VEX VRC 2022- 2023 Spin Up Game

VEX Secondary School Game for 2022. Everything you need to build a complete VRC Spin Up field.
Note: Field Perimeter & Tiles NOT included.

CODE	DESCRIPTION	PRICE
VEX 2696705	VEX GO Kit with Storage Boxes	€265.00
VEX 2487611	VEX 123 Robot (Red) and Coder	€159.00
VEX 2487661	VEX 123 Small Classroom Bundle	€1,220.00
VEX 2487353	VEX 123 Programming Cards (50 pack)	€19.20
VEX 2283660	VEX IQ Super Kit	€490.00
VEX 2287506	VEX IQ 2022- 2023 Slapshot Full Field & Game Element Kit	€175.00
VEX 2767120	VEX V5 Classroom Super Kit	€1,945.95
VEX 2767500	VEX VRC 2022- 2023 Spin Up Full Field & Game Element Kit	€795.00

*Please see our website for our entire range of VEX IQ and VEX V5

AUDIO

AVID Headphones

AVID headphones and headsets are designed to be one of the most durable on the market, making them ideal for school use. The have an adjustable, padded headband, and repositionable ear cups which work together to provide an incredibly comfortable fit for children of all shapes and sizes.

CODE	DESCRIPTION	PRICE
AVID 100854	AVID AE-54 Headphone Black & Orange (no mic)	€12.95
AVID 100656	AVID AE-55 Headset Black & Blue with Mic USB	€29.95
AVID 100652	AVID AE-42 Headphone in Modern Green with built in Mic	€19.95
AVID 100844	AVID Fishbone Flexible Adapter	€3.95
AVID 100583	AVID AE-35 Headset Blue (no mic)	€14.95
AVID 100649	AVID AE-36 Headset with 3.5mm Jack in Green with Mic	€16.25

Padcaster Starter Kit Bundle

The Padcaster Starter Kit is the perfect first step in turning your iPad into an all-in-one mobile production powerhouse. Perfect for schools, journalists, filmmakers, companies of all sizes and more, the Padcaster Starter Kit is a great entry-level video production system that empowers you to tell your story - with tools that are mobile and professional.

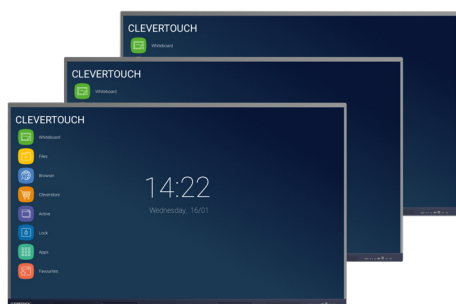| CODE	DESCRIPTION	PRICE
Padcast 102102	Padcaster Starter Kit Bundle	€999.95
AND 710038	Micker Pro All -in-One Microphone and Speaker	€279.00

All Prices Include VAT at 23%

DISPLAY

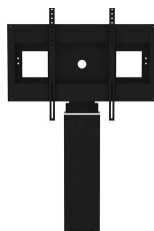## Clevertouch IMPACT Max Display Screens

Simple and powerful, for a maximum effect.
Delivering a truly intuitive and collaborative experience, IMPACT Max is an interactive screen with unlimited possibilities. Combines high-quality design, functionality, durability, native screen sharing and 4K resolution. Discover the IMPACT of immersive learning with an interactive display for your classroom.

The IMPACT Max screens can be mounted to a wall using a B-Tech Universal Wall Mount. Clevertouch also offer a range of mobile mounting solutions, the Clevertouch
trollies are an easy to use option that gives you the freedom to move your screen wherever you desire.

CT 1700165   CT 1544235   CT 1542434   BT 9901B

CODE	DESCRIPTION	PRICE
CT 1541301	Clevertouch IMPACT Max 65inch Interactive Display	€2,995.00
CT 1541302	Clevertouch IMPACT Max 75inch Interactive Display	€4,250.00
CT 1541303	Clevertouch IMPACT Max 86inch Interactive Display	€5,250.00
CT 1700165	Clevertouch CMS Trolley for 50-86inch Flat Screens	€795.00
CT 1544235	Clevertouch Electric Wall Lift with Low Access up to 86inch	€1,199.00
CT 1542434	Clevertouch Electric Height Adjustable Trolley up to 86inch Flat Screen	€1,295.00
BT8442	B-Tech Universal Flat Screen Wall Mount (VESA 600) Suitable for the 65" display	€99.95
BT9901B	B-Tech Universal Extra Large Flat Screen Wall Mount (VESA 900x 600) Suitable for the 75" and 86" display	€135.00

*Pricing does not include installation. Please phone the office on 071 9153810 for installation quote.

Daydream Wallcharts

Daydream Education is Ireland's leading provider of educational posters, with a range that spans 25 subjects and hundreds of designs. All content is developed with the aid of educators who have first-hand experience of the realities of classroom teaching.

Daydream's dynamic product portfolio is continuously evolving to meet the changing needs of today's schools; providing pioneering and engaging resources that cater for a wide range of teaching methods and learning styles

CODE	DESCRIPTION	PRICE
WC.......	Daydream Wallcharts Gloss Finish Range	€7.75
WC.....L	Daydream Wallcharts Laminated Finish Range	€12.50

*Check out our website: www.sgeducation.ie/category/sec-wallcharts/ to see the full range of Daydream Posters.

Classroom and Student Whiteboards
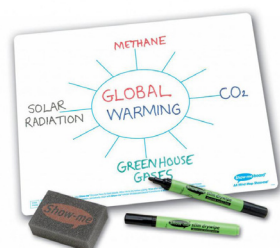
Whiteboards are an excellent tool for displaying learning content, they help to increase student engagement and allow for flexible teaching.

Show-me & Write and Wipe Boards are a fun, versatile and reusable classroom resource. These classic lightweight A4 whiteboards can be used to increase the interactivity of teaching and learning across the curriculum for all ages.

CODE	DESCRIPTION	PRICE
SG 852	Roll Up Magnetic Whiteboard	€19.95
L159100	Legamaster Magic Chart Whiteboard (25) 60 x 80cm	€39.50
MAGIC WBPLAIN	Magic Whiteboard Plain A1 Roll 25 Sheets	€39.95
SG PLAIN A430	Write n Wipe Boards A4 Plain (30)	€29.95
EP C/SQB	Show-me Drywipe Board Plain/Grid Classpack (35) A4	€109.00
EP C/MMB	Show me Mind Map Drywipe boards (35) A4	€105.00
AR CF90120	Mobile Whiteboard Magnetic1200x900cm	€285.00
CR 1......	Aluminium Magnetic Enamel Whiteboard Range From:	€160.00

Other Display

Displaying student work provides an opportunity to learn from each other and to appreciate the work of others, nurturing empathy, respect, and a strong sense of classroom community. There are many options to choose from when deciding how to display student work; noticeboards, display case, even digitally using a display screen!

CODE	DESCRIPTION	PRICE
ED BJ5....	Fadeless Rolls - Range	€8.95
KF......	Felt Noticeboards Range From:	€39.00
KF04173	A1 Flipchart Easel	€115.00
AR BA8A4	Display Case Perspex 8xA4 93x65.5cm	€209.00

VISUALISERS

Hovercam Solo Spark

Capable of viewing up to A3 Documents at Full HD, recording video, annotations, time-lapse and slow motion video. Ideal for subjects like Maths, Accountancy, Science and Geography.

Hovercam Solo 8 Plus

Contains a 13MP sensor. This allows for video and images to be outputted at 4k clarity, and it can be used as a video camera at 30 frames per second, whilst maintaining 13MP resolution. Ideal for subjects like Art and Graphics.

HUE HD Pro Range

This camera can view a full A4 and project it onto the whiteboard via your PC and projector. The HUE HD Pro also comes with specially designed software, HUE Intuition, to allow you to master the full functionality of the camera with ease.

CODE	DESCRIPTION	PRICE
Hover S8	Hovercam Solo 8 Plus Visualiser A3	€675.00
HOVER SS	Hovercam Solo Spark A3 Visualiser	€499.00
HUE PC0004 PRO	HUE HD Pro Camera Visualiser Range	€100.00
HUE ANIMATION	HUE Animation Studio Visualiser	€99.00
IP V4K	IPEVO V4K USB Visualiser V4k 8mp	€150.00
IP DOCAM Y	IPEVO DO-CAM USB Visualiser Yellow 8mp	€190.00
IP V4K PRO	IPEVO V4K PRO Ultra HD USB Visualiser	€230.00
IP VZR	IPEVO VZ-R A3 Visualiser HDMI & USB-C 8mp	€305.00
IP VZX	IPEVO VZ-X Wireless A3 Visualiser HDMI & USP 8mp	€435.00

IPEVO VZ-X Wireless

VZ-X features three connection modes: Wi-Fi, HDMI, and USB. You can use it with a computer, iOS/Android device, or directly with an Apple TV, TV, projector, or monitor in the setup that best suits your needs. Quality image: 8 MP sensor.

Contact Us:

We are available 9am - 5pm Monday to Friday. You can chat to our knowledgeable friendly staff live on our website www.sgeducation.ie or you can contact our Sales Team by phone or email.

Phone: 071 9153810
Email: sales@sgeducation.ie
Address: SG Education, Unit 8a, Dublin Rd Business Park, Carraroe, Co. Sligo, F91 WN90.