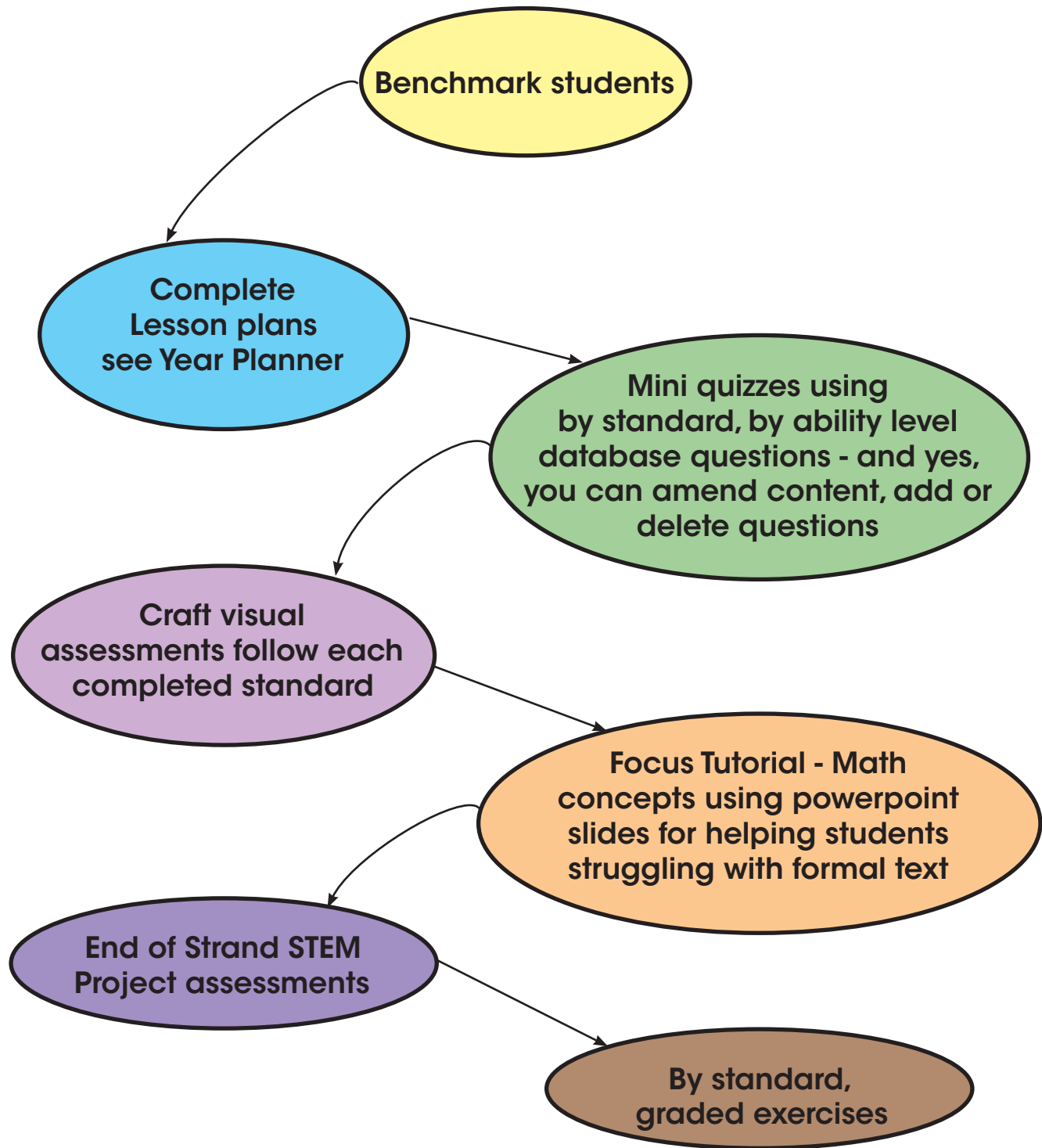


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Program Workflow



All underpinned by

Literacy

- Archway - a program within a program to teach students to read and write.
- By standard literacy assignments within the Parent/Teacher book and CD Rom.
- Reader books for each grade linked to Personal, Social and Health topics
- STEM Literacy assignments.



The TPS Creative Core Curriculum Mathematics with literacy and STEM has been constructed with the intent to enhance the Mathematics learning and teaching in your State's schools.

Through adhering to the Core Curriculum Mathematics Content Standards, the TPS Publishing Inc. program presents Mathematics as a way of thinking and learning, and incorporates literacy skills necessary for academic success in acquiring Mathematics as an academic language. Written through the perspective of the educator and the student, the materials ingrained in the program provide the educator with guidance and tools necessary for student success.

The TPS Publishing Inc. Creative Core Curriculum with literacy and STEM program provides for grades K-5 and has been built by a group of companies. Each have expertise in Mathematics, and have jointly built a program, which is inclusive and activity based.

We provide three key inquiry based component areas:

1. TPS Publishing Inc. traditional lesson plans, using manipulatives, are exactly aligned to each Core Curriculum standard.
2. Crafting projects are aligned to each Core Curriculum standards. Action Based Curriculum provides nasen approved projects, which are inclusive, but particularly useful as a visual by standard assessment tool.
3. STEM project based learning cycles. Illinois State University provide wonderful activities, especially useful as a visual assessment tool at the end of each strand in each grade.

We are very proud to present our ancillary products:

TPS Publishing Inc.

- **Workbooks** – For each standard in each grade, we provide inquiry based comprehension questions for students to complete. For Kindergarten through to Grade 3 we have created the questions at three skill levels; below, at and advanced.
- **Focus Tutorial** – Many students find formal text challenging. ELL and Special education students can greatly benefit from using the focus tutorial content in Grades Kindergarten to 3. The content for key standards is contained using more white space, simpler language and detailed graphics.
- **Reader books** – In each of grades K-5 we have provided a themed reader book for students to use throughout the year. Students in early grades may need the books to be read to them, others can read the text themselves. The theme of the Olympic Games is used for grades K - 2, and then from Grades 3 – 5 we add family as a main theme using the Davis Family with events in a typical year, alongside 21st Century families, which provides materials covering the different styles of family in our modern world. We link the reader book, the crafting lesson plans, activity guides, bundles and educational paper craft packs to cover the Mathematical content of each grade; as well as personal, social and health topics appropriate for all students.
- **Assessment database** – We have provided a K-5 by standard, by skill level, by grade, assessment tool for teachers. Tests are provided within the database but following many requests. We have created the tool so that teachers can add, delete and/or amend their own questions. Personalized tests can be created and teachers can choose multiple choice or free response style questions, view the end product, and amend before printing.
- **Blackline Master** – All the usual content can be found on our Blackline Master. For example; a 100 chart, times tables, equivalent fraction charts. In addition we provide all of our wonderful literacy with numeracy parent/teacher questions as a photocopiable resource.



- **Reteach Kit including Archway** – Many students struggle either with Mathematics or often with English Language, which in turn affects Mathematical progress. Archway is a component, which provides a direct method to help students to read and write and at the same time develop their Mathematical skills. We link this with reteach exercises and provide teachers with a kit to assist struggling learners.
- **Electronic format** - Everything we provide is available in electronic format. Access can be provided via our website or on CD Rom. Class sets and or school license terms are available.

Action Based Curriculum

- **Activity Guides** – Each activity guide is set up to be run over four sessions and covers core curriculum Mathematics and personal, social and health topics such as anti-bullying, caring for a pet, personal health. By popular demand we provide a topic based series of lesson plans, for example; Understanding shapes.
- **Ellison die machines, dies and starter kit teacher guides** – Many of you may have these great time saving machines. We use the equipment throughout our crafting lesson plans.
- **Educational Paper Craft Packs** – Each craft pack links to the Davis Family reader book, and we use the resource as a visual assessment tool. Students are engaged by the arts and crafts approach, and can often demonstrate understanding that is not possible using their language skills.
- **Davis Family Reader book** – a reader book to use throughout all grades for the theme of family.
- **Electronic format** – all lesson plans and reader books are available electronically, either via access to our website or on a CD Rom.

Invicta Education

Mathematics manipulatives are often expensive and not robust. We have written our lesson plans so that materials will often already be in your classrooms, however for some areas of Mathematics we do recognize that manipulatives, which are robust and not home-made, are key to student understanding and practice. Invicta Education are a plastics company with an education sector, and having won many awards, were the natural choice to partner with.

The contents page which follows will guide you through to the section you wish to view. We provide a no fuss, no cost replacement policy for all ancillary products.

Professional Development

We provide courses from one half day to ten days in length. All professional development is provided by Illinois State University professionals at their site or at any desired location in your district. The course content is included at the back of the catalog.

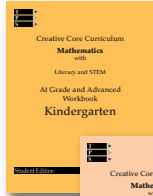
We wish you every success using our program.

Warmest regards,

Maz Wright, President

Creative Core Curriculum Mathematics with Literacy and STEM

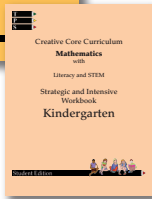
Curriculum Aligned Math Workbooks — Grade Kindergarten



Student Workbook At Grade and Advanced

ISBN: (978-1-84700-447-5) Full Color

ISBN: (978-1-84700-492-5) Black and White



Student Workbook Strategic and Intensive

ISBN: (978-1-84700-446-8) Full Color

ISBN: (978-1-84700-491-8) Black and White

Curriculum Aligned Math Workbooks — Grade 1

Student Workbook At Grade and Advanced

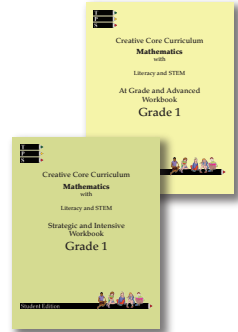
ISBN: (978-1-84700-449-9) Full Color

ISBN: (978-1-84700-494-9) Black and White

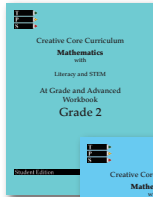
Student Workbook Strategic and Intensive

ISBN: (978-1-84700-448-2) Full Color

ISBN: (978-1-84700-493-2) Black and White



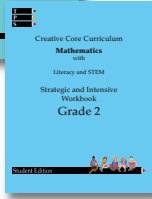
Curriculum Aligned Math Workbooks — Grade 2



Student Workbook At Grade and Advanced

ISBN: (978-1-84700-451-2) Full Color

ISBN: (978-1-84700-496-3) Black and White



Student Workbook Strategic and Intensive

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ISBN: (978-1-84700-495-6) Black and White

Curriculum Aligned Math Workbooks — Grade 3

Student Workbook At Grade and Advanced

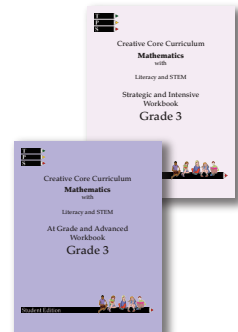
ISBN: (978-1-84700-453-6) Full Color

ISBN: (978-1-84700-498-7) Black and White

Student Workbook Strategic and Intensive

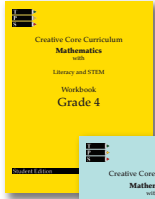
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Creative Core Curriculum Mathematics with Literacy and STEM

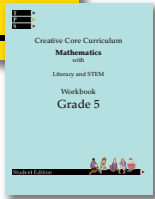
Curriculum Aligned Math Workbooks — Grade 4 and 5



Student Workbook Grade 4

ISBN: (978-1-84700-445-0) Full Color

ISBN: (978-1-84700-499-4) Black and White



Student Workbook Grade 5

ISBN: (978-1-84700-457-4) Full Color

ISBN: (978-1-84700-500-7) Black and White



Focus Tutorial

ISBN: (978-1-84700-458-1)

Graded Assessment Database by Core Curriculum Standard

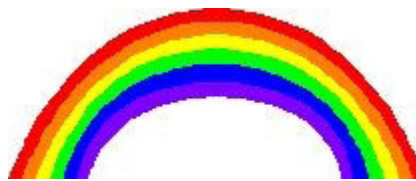
ISBN: (978-1-84700-460-4)

Blackline Master

ISBN: (978-1-84700-461-1)

Reteach workbook kit including Archway literacy program

ISBN: (978-1-84700-462-8)



Creative Core Curriculum Mathematics with Literacy and STEM

Program Summary.

The Olympic Games activity guide -

This provides four sessions/weeks (approximately four hours) of hands-on activity in which the students use the die machine and dies to create a foldout booklet about different aspects of the Olympic Games. This activity ends with the students creating their own Olympic Games instead of a sports day.

ISBN: (978-1-90801-217-3)



Poetry in Motion -

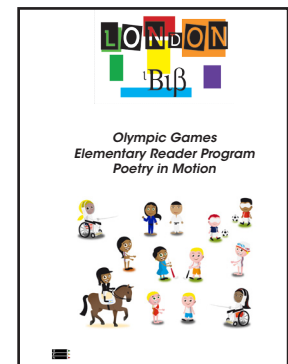
This element of the reader program provides students with a poetry aspect to read and 'Let's Communicate' discussion questions, which cover such ideas as; movement, speed, friendship, staying safe and anti-bullying.

Students compare humans to other animals.

Depending upon the level of the students involved, the students can either read to others or be read to. They are then expected to complete the discussion questions involved.

Students complete the 'Stay Safe', 'Antibullying' and 'My Family' die activities and the matching 'My Family' educational paper craft pack.

ISBN: (978-1-84700-487-1)

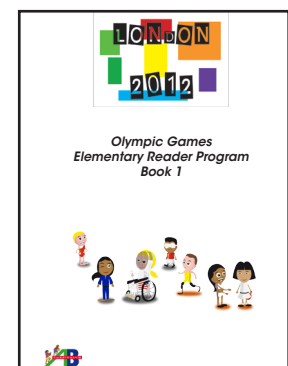


Olympic reader book 1 -

This part of the reader program provides students with short, repeating sentences with the aim to aid students to recognize different words to do with the Olympic Games, for example; "I love judo." Or "I love to fence."

Towards the end of this reader book, there is a section in which students are asked to copy certain Olympic words and act out sports.

ISBN: (978-1-84700-485-7)



Creative Core Curriculum Mathematics with Literacy and STEM

Olympic reader book 2 –

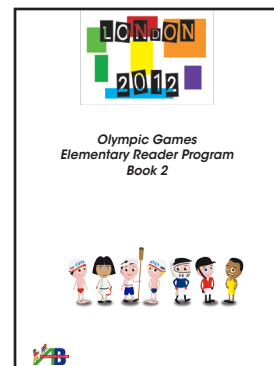
This part of the reader program provides students with short stories about different athletes within the Olympic Games.

After each short story there is an 'Act It Out' section, which requires the students to create a scene using some of the ideas from the story.

Each chapter also has a PSHE section, which focuses on such ideas as; community, friends, staying safe, being healthy and anti-bullying. For this section, students are asked to complete an activity revolving around each topic such as, completing a craft pack or creating a flyer.

Craft packs can be chosen from 'Sports', 'My Journey' and 'All About Me'.

ISBN: (978-1-84700-486-4)

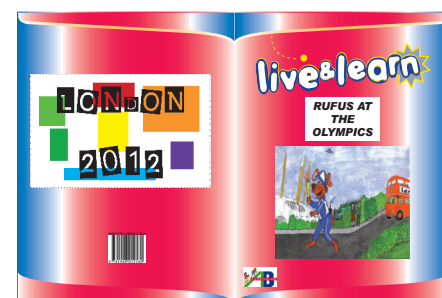


Olympic reader book Middle School –

This part of the reader program provides students with a longer story about Rufus and Lucy researching, learning and dreaming about the 2012 Olympic Games. Depending upon the level of the students involved, the students can either read to others or be read to.

At the end of the book, the students are asked to research and learn about the Winter Olympic Games in the same way as Rufus and Lucy did for the Summer Olympic Games.

ISBN: (978-1-84700-488-8)



Although we do not have an pre-K reader book, each of these reader books can be used with an pre-K class as the teacher can read to the students and help them to complete the activities. We do also have Rufus the puppet, to aid teaching younger students and students with special educational needs. Many students find Rufus much easier to talk to/through than themselves!

21 Century Families

A Thematic Action Based Program

Mr. Evans, Sam's teacher, has given him a project for over the summer holidays. Sam has been asked to draw a picture of his family.

Sam's family is a little bit different from some of his friends' as he has two moms.

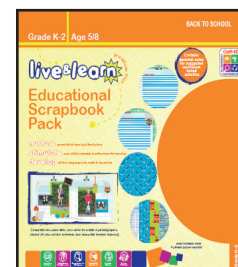
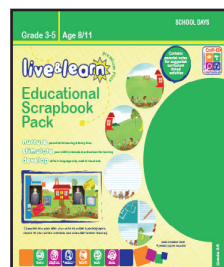
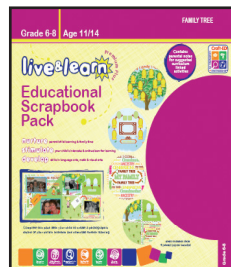
The traditional family structure is considered a traditional family support system involving two married individuals providing care and stability for their biological offspring. However, this two parent, nuclear family has become less prevalent, and alternative family forms have become more common.

Over time, the traditional structure has had to adapt to very influential changes, including divorce, single-parent families, same-sex marriage and adoption.

21 Century Family explores family structures through the eyes of Sam and his friends.

This reader book, which is either read to the student or by the student depending on their reading ability, is themed to discuss alternate family situations while relating to one of our activity based educational craft packs. These packs are designed to be creative, hands on activities, which join education with fun.

ISBN: (978-1-84700-489-5)



Creative Core Curriculum Mathematics with Literacy and STEM



21st Century Schools Modules



Our School Activities provide:

- a tangible and creative method of delivering the National Curriculum that meets the needs of all
- motivates pupils to achieve their potential by encouraging learning through a creative and personalized approach
- links to Every Child Matters, Every Parent Matters, Inclusion, Enterprise and the United Nations Millennium Development Goals
- covers PSHE topics
- aligns to adult literacy and numeracy entry level requirements
- The resources are managed and used for many different activities, making resources, play and play sessions, generating income, teaching the early years foundations stage and for engaging with parents
- sustainable as we can use recyclable materials.



Die Cutter and Dies

Die-cutting is a similar process to using a cookie cutter, by using a hand operated die-cutting machine. The die machine uses steel rule die shapes to cut through a large range of materials, for example; balsa wood, cardstock, felt, wallpaper or leather (all materials are listed within our activity guides).

The use of the die machine and dies minimizes the time, patience and manual dexterity required when using scissors.

Die-cutting is fast, fun, completely safe and produces pleasing results for students of all levels

Key reasons for using the die machine and dies:

1. The die-cutting machine reduces time and patience required when using scissors.
2. The die-cutting machine helps those with special educational needs to produce work to the same level as their peers, therefore helping to reduce stigma and increase confidence.
3. The die-cutting machine can do up to 30,000 cuts before any maintenance is required.
4. The die-cutting machine can cut through a wide and interesting range of materials.
5. Because the blade is completely embedded in a rubber surface, using this machine is extremely safe for all age groups and ability levels.



We have created 17 activity guides using the die machine which are summarized on the next pages.

Each guide provides teacher lesson plans covering four one hour sessions.

The die machine and dies required to complete activity guide work are reusable.

The programme is inclusive and approved by nasen (national association of special education needs).

Starter kits are required to successfully follow our activity guides. We have two starter kits both of which include the AllStar Die Cutting Machine which is required.

Using our programme learners develop skills for life.

Through our 'Money Maths', 'Magic Maths' and 'Enterprise' modules, learners develop knowledge relevant to financial awareness, basic numeracy skills, confidence and improved self esteem, which all contribute to their economic and social well-being. The 'Enterprise' module involves learners writing a brief business plan and making products to sell in the local community. In some local authorities, learners have helped facilitate our module sessions within a family learning environment, which has led to future employment.

ALL ACTIVITY GUIDES CAN BE MIXED AND MATCHED WITH THE STARTER KITS TO ENSURE YOU GET EXACTLY THE ACTIVITY AND DIES YOU NEED.

Starter Kit One

Dies & Activity Guides and Activities (10)

AllStar Machine, 1 1/2" upper case letters and numbers, 1 1/2" lower case letters and punctuation plus 10 Activities.

ab ef ij mn
cd gh kl op
qr uv yz:
st wx ? (!

AB EF IJ
CD GH KL
MN QR UV Y
OP ST WX Z
12 56
34 78



Starter Kit Two

Dies & Activity Guides and Activities (10)

AllStar Machine, 3 1/2" upper case and lower case letters and numbers plus 10 Activities.

ABCDEFGHIH
IJKLMNOPQ
RSTUVWXYZ

abcdefghijklmnop
qrstuvwxyz

012345678



Creative Core Curriculum Mathematics with Literacy and STEM



Emotions ISBN: (978-1-90801-255-5)

Whilst making an album children are encouraged to:

- identify different human emotions
- consider how they personally feel and how they can keep a healthy balance of emotions
- reflect on what the causes of different emotions might be
- develop their own strategies for coping with different emotions

The Module concludes with a celebration of 'Happiness is...' encouraging children to recognize the different factors that contribute to personal happiness.



Transitions 1 ISBN: (978-1-90801-246-3)

New school, new teacher, new friends, new routine: a time of big changes for a little person! An album is made as a keepsake for parents as a record of their child's time in pre-K but also as an introductory tool for the new elementary school teacher. The album starts with:

- a celebration of the child as an individual
- followed by the value of friendship
- the challenges of facing a new routine and embracing change
- showing thanks and appreciation



Community ISBN: (978-1-90801-240-1)

What is a community? The purpose of the Module is to encourage children to:

- think about and discuss how they are part of a community
- take pride in their community, whether their school community or their local community
- realize that they are part of a national community
- celebrate the diversity of its citizens

A four-tiered mobile is made with each tier representing a community with the final one being our global community and discussion around how we are all responsible for the welfare of our planet and the people on it.



Anti-Bullying ISBN: (978-1-90801-239-5)

A star book is made and added to over the sessions through discussion of:

- understanding the nature of bullying and its different forms
- the feelings surrounding bullying, including how it might feel to be bullied and why some people might be bullies
- coping strategies and valuing friendships
- the importance of good communication and respect



Go Green ISBN: (978-1-90801-237-1)

The activities within this Module provide an opportunity for children to think about their own impact on the environment and the changes that could be made to make improvements. A series of four posters are made that can be displayed individually or as a large display, incorporating:

- recycling
- saving water and power
- biodiversity
- the benefits of walking

Energy saving reminder cards and awards are made to take



Stay Safe ISBN: (978-1-90801-247-0)

This Module primarily focuses on raising awareness with children at:

- the potential risks associated with strangers and how to stay safe
- to learn about the people who help us stay safe
- road safety
- cycling safety

A display poster is made together with individual people who help us stick puppets, a cycling safety book and a road safety book.



Creative Core Curriculum Mathematics with Literacy and STEM



Dynamic Dad

A pocket frame-book is made through which the relationship between a child and their father is explored and celebrated through discussion around:

- what a perfect Dad would do and what a Dad would like their child to do
- why a Dad is special and what a child loves about their Dad
- a child's view of their perfect day with their Dad
- considering different ways of communicating with their Dad



Going for Goals ISBN: (978-1-90801-253-1)

Designed to complement theme four of the Government Inclusion scheme 'SEAL' (Social and Emotional Aspects of Learning) whereby pupils reflect on their own unique values, strengths and qualities raising their self-awareness and increasing motivation. A book is made for pupils to record:

- the factors that might prevent them from learning
- co-operating as part of a team to achieve a goal and set themselves a personal goal
- reflecting on progress towards their goal, and setting a new goal which can be broken down into achievable steps
- reflecting on their progress and thinking of something positive about each member of the group



Captain Confidence ISBN: (978-1-90801-248-7)

A child's self-confidence and high self-esteem are vital to enable them to learn effectively. This Module enables pupils to consider personal strengths and achievements and develop strategies for coping with challenges through:

- discussion of self-esteem and how it can be raised or lowered
- reflecting on their current level of self-esteem and the reasons for it and thinking about how family members can help to raise self-esteem
- reflecting on their recent achievements and thinking about positive characteristics of other group members
- considering statements about self-esteem and deciding whether they are true or false



Magic Math ISBN: (978-1-90801-242-5)

Over four sessions a pack of fun games is made to encourage mathematical development within and between families.

- to match numerals, number words and visual representations of numbers and to make a pocket book and play a number matching game
- to be able to calculate mentally addition and subtraction of numbers up to 10 to make a set of mathematical dominoes and use them to play a game
- to use and recall multiplication facts and the related division facts to make a set of mathematical jigsaws
- to identify and compare quarters, halves and three quarters in numbers, words and visual representations to make a set of matching fraction cards



Word Play ISBN: (978-1-90801-254-8)

Over four sessions a pack of fun games is made to encourage literary development within and between families.

- to recognize, sequence and match the upper and lower case alphabets and to make the zigzag book,
- to recognize a range of high frequency words and to sort a range of high frequency words alphabetically
- to recognize and build CVC words and identify vowel and consonants and to make and play a bingo game using CVC words
- to recognize environmental print in upper and lower case and to play a game matching upper and lower case common sight words



Creative Core Curriculum Mathematics with Literacy and STEM



I Love My Life ISBN: (978-1-90801-244-9)

A double scrapbook page is created each week using a child's personal photograph and covering a new topic including:

- Family values and appreciating the family unit
- Celebration of birthdays, growth processes and caring for one another
- Value of friendship
- Embracing diversity between oneself and others



Healthy Me ISBN: (978-1-90801-238-8)

A concertina booklet is made over four sessions focussing on:

- healthy bones
- healthy, balanced and varied diet
- being active
- action plan for a healthy future



My Family ISBN: (978-1-90801-245-6)

An album is made celebrating the family unit with discussion around:

- appreciating how being part of a loving family nurtures self-confidence and self-esteem
- celebrating the family unit and members
- family values
- the family home



Enterprise ISBN: (978-1-90801-241-8)

Children work together with a facilitator on an enterprise project to develop their entrepreneurial characteristics. Key stages of Enterprise Education are covered within the Module including:

- Identifying a need and idea generation
- goal setting
- planning, roles and responsibilities
- Implementation, monitoring and evaluation



Transitions 2 ISBN: (978-1-90801-249-4)

Transition from elementary to middle school is an exciting but sometimes daunting time for children, parents and teachers. As part of this Module children make a memory book as a celebration of their friendships and special times

- preparing for changes
- being confident when facing new challenges
- seeking help
- making responsible choices



Baby Science ISBN: (978-1-90801-233-3)

The "Babies" resource series has been designed to support educators in delivering a series of personalized activities based on different aspects of students' lives. These studies link in with PSHE families as well as Living Things science and require use of literacy and manipulative skills.



Part 1

- To have students recognize that babies have a timetable. To have students think about their daily time table and compare it to that of the time table of a baby.
- To introduce or consolidate the knowledge students have about names of baby animals, which are different from those of the mother.
- This activity is to introduce the concept that the males of species often have a special name as well as the name of the kind of animal groups to which they belong.
- The activity links the development of animals. Using farm animals to link with previous activities helps students to find out that the young of a species have, as well as a different name of the baby stage, another name as they change from a baby to an adult in the change stage.



Part 2

- The aim of this activity is to help children understand that we humans, like all mammals, have an incomplete metamorphosis.
- The objective is to reinforce the stages in the life of three often seen invertebrates all of which have a complete metamorphosis.
- This objective is that students will learn more about invertebrate classification, grouping living things, as well as reinforcing the life cycles.
- This objective is to reinforce student knowledge and understanding of the life history of a frog, an Amphibian with complete metamorphosis, as well as revising the characteristics of vertebrates and Amphibians.



Part 3

- The aim of this activity is to have students revise the characteristics shared by all mammals; fur, four limbs, two sets of teeth, different kinds of teeth, a post anal tail, ear flaps, warm blooded and born live.
- The aim of this activity is to help children understand that human babies cannot eat the same food as them and don't drink coke and eat pizza and burgers like many elementary students think. Babies have no teeth and need food mashed up but they also need milk like other mammals for the first months of life. Students consider what cats, mice and rabbits eat and whether they can feed themselves or rely upon parents.
- The aim of this activity is to consolidate the knowledge of a butterfly life cycle with a complete metamorphosis as well as revising the characteristics of insects and the butterfly group in particular and relate this to children's own observations from outside or at a butterfly house on field trips. Students research and record what butterflies eat and compare their findings to what they themselves eat.
- Thinking about and doing this activity encourages students to understand that babies need special things because of their small size and because they are largely helpless so cannot do things for themselves like move about, dress and feed themselves (unless given the food but they cannot obtain it and put it to their mouth for themselves). Students consider the similarities and differences between the needs of humans and other animal babies.



Part 4

- The aim of this activity is to develop student knowledge about all living things.
- The aim of this activity is to focus on the key processes; movement, nutrition, and growth. Students will build on their earlier knowledge of frogs and butterflies.
- The aim of this activity is to build on the last week's activity as this activity is similar to the previous one but this time focusing on plants and how they are similar but different to humans and how the same processes are carried out.
- These activities introduce or reinforce the understanding of the nature of plants and the problems of producing babies when they cannot move to find a mate.

Creative Core Curriculum Mathematics with Literacy and STEM

Starter Kit One

ISBN: (978-1-90801-232-6)

Activities include:

- Alphabet book-make a personalised spelling book
- Alphabet line-sequence and match upper and lower case alphabet
- Classroom labels-create visual spelling aid for classroom objects
- CVC game-making and reading CVC words

a b e f i j m n
c d g h k l o p
q r u v y z;
s t w x ? (!



Starter Kit Two

ISBN: (978-1-90801-252-4)

Activities include:

- Alphabet frieze-linking letter sounds and letter names
- Assembly Board- create a visual reference for assembly times
- Date chart- sequence and spell days and months
- Make 10- reinforcing addition to ten

A B E F I J
C D G H K L
M N Q R U V Y
O P S T W X Z
1 2 5 6
3 4 7 8



Food Bundle - 5 dies

ISBN: (978-1-90801-226-5)

Activities include:

- Loaves and Fishes - explore the Bible story, poverty and sharing
- Harvest Festival - origins and significance
- Favourite Food - the importance of healthy eating

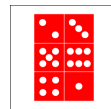


Handling Data Bundle - 5 dies

ISBN: (978-1-90801-250-0)

Activities include:

- What is the probability of...? - to use fractions to express probability
- Sorting Shapes - using a Venn diagram
- Sorting Shapes - using a Carroll diagram
- How do we get to school? - collecting, organising, interpreting data in a block graph



Human Bundle - 20 dies

ISBN: (978-1-90801-225-8)

Activities include:

- Heart and lungs-create a working model of the heart or lungs
- Doctor role play kit- create a surgery in the classroom
- Life cycle of a frog-create a whole class and individual version
- The effects of drugs-research the effects of various drugs



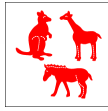
Creative Core Curriculum Mathematics with Literacy and STEM

Wild Animals Bundle - 6 dies

ISBN: (978-1-90801-227-2)

Activities include:

- Number cards - to reinforce counting and sequencing of numbers
- Wild Animals Dice Game - to encourage pupils to use wild animals as a stimulus for speaking and listening
- Wild Animal Puppets - for pupils to use puppets to tell stories and perform to the class

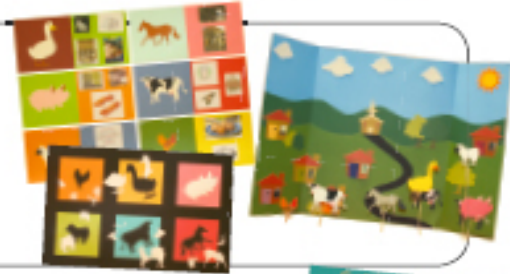


Farm Animals Bundle - 6 dies

ISBN: (978-1-90801-228-9)

Activities include:

- Storytelling with stick puppets-develop and tell a story
- Animal information Chart-extend vocabulary
- Number cards-recognise numbers and count objects
- Puzzles-match animal parts to complete shapes

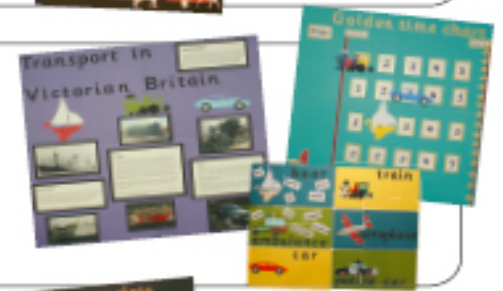


Transport Bundle - 6 dies

ISBN: (978-1-90801-231-9)

Activities include:

- Measuring Flights-carrying out a science investigation
- Rules to stay safe- rules for and ways of keeping safe
- How we travel-collecting data and presenting it in a block graph
- Tell a story- create a story based on transport



Understanding Shape Bundle - 12 dies

ISBN: (978-1-90801-251-7)

Activities include:

- Compass direction game-describing the position of shapes on a grid
- Problem solving with tangrams-use tangrams to make and compare properties of different shapes
- Reflections-create and complete symmetrical patterns



Nature Bundle - 13 dies

Activities include:

- Consonant flowers-interactive way to practice consonant blends
- Water cycle-make a visual water cycle
- Green plants-label a plant and consider what conditions plants need
- Changing shadows-interactive activity looking at how shadows change



Life Processes & Living Things Bundle - 18 dies

ISBN: (978-1-90801-229-6)

Activities include:

- Life cycle of a butterfly-make a visual record of this life cycle
- Giant Sorting Key-create a key to sort a selection of living things
- Pollination-Interactive display showing how insects help in pollination
- Who is it game?-identify living things using life processes



Creative Core Curriculum Mathematics with Literacy and STEM



Educational Paper Craft Packs

Our Educational Paper Craft Packs are a unique resource that can be used by children and adults to make a record of an outing or an occasion. They include suggested discussion points and suitable web site addresses. These notes give the educator the confidence to know that the points they discuss with the children will naturally enhance their understanding of subjects they will be covering in school.

Educational Paper Craft Packs can be delivered as part of a crafting workshop to small groups of children and/or adults over a period of weeks. Workshops can be delivered by an organization's chosen educator or by a Live and Learn Consultant, tailored to meet the needs of the participants and any specific time constraints.

Each pack comes with 4 sheets of cardstock, 1 sheet of patterned paper, 4 cardstock photo mats, 1 sheet of 3D embellishment stickers, 1 sheet of stickers, 2 tags, ribbon and adhesive.



Creative Core Curriculum Mathematics with Literacy and STEM

Educational Paper Craft Packs	
Item Description	
All About Me (8 x 8)	ISBN: (506-0-16007-058-4)
Birthday (8 x 8)	ISBN: (506-0-16007-060-7)
Back to School (12 x 12)	ISBN: (506-0-16007-067-6)
Ancient Egypt (12 x 12)	ISBN: (506-0-16007-076-8)
Family Tree (12 x 12)	ISBN: (506-0-16007-080-5)
Careers (12 x 12)	ISBN: (506-0-16007-073-7)
Friends (8 x 8)	ISBN: (506-0-16007-061-4)
I Love My Pet (8 x 8)	ISBN: (506-0-16007-059-1)
Communication (12 x 12)	ISBN: (506-0-16007-077-5)
Down on the Farm (12 x 12)	ISBN: (506-0-16007-068-3)
My Planet (12 x 12)	ISBN: (506-0-16007-074-4)
Sports (12 x 12)	ISBN: (506-0-16007-071-3)
My Vacation (8 x 8)	ISBN: (506-0-16007-063-8)
Ecosystems (12 x 12)	ISBN: (506-0-16007-075-1)
Knight in Shining Armor (12 x 12)	ISBN: (506-0-16007-066-9)
Music (12 x 12)	ISBN: (506-0-16007-072-0)
My Journey (12 x 12)	ISBN: (506-0-16007-070-6)
Pretty as a Princess (12 x 12)	ISBN: (506-0-16007-065-2)
School Days (12 x 12)	ISBN: (506-0-16007-081-2)
Solar System (12 x 12)	ISBN: (506-0-16007-079-9)
Transportation (12 x 12)	ISBN: (506-0-16007-078-2)
Wheels in Motion (12 x 12)	ISBN: (506-0-16007-064-5)
My Home (12 x 12)	ISBN: (506-0-16007-069-0)
Sleepover (8 x 8)	ISBN: (506-0-16007-062-1)

Creative Core Curriculum Mathematics with Literacy and STEM

The Davis Family

A Thematic Action Based Program

The Davis Family program is an excellent learning resource for all children, but especially those with learning disabilities.

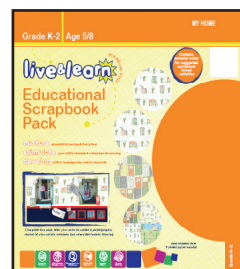
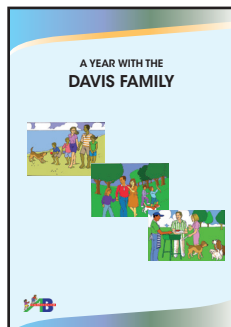
The program is centered upon The Davis Family reader book, which is either read to the student or by the student depending on their reading ability. The Davis Family reader book follows the Davis family through their everyday lives and special family events, such as birthdays and holidays.

AB Curriculum has created English, Mathematics and Science lesson plans for Grade K to 8 students, all linked to the core curriculum, which all correspond with chapters within The Davis Family reader book. The lesson plans include; whole class, small group and individual activities to create a sense of variation within the classroom.

Each chapter within the Davis Family reader book relates to one of our educational paper craft packs. These packs are designed to be creative, hands on activities, which join education with fun.

As a whole, our Davis Family program includes activities for all students no matter what educational level they may be, while maintaining fun and creativity throughout the entire class.

ISBN: (978-1-90801-201-2)





EDUCATING CHILDREN WORLDWIDE

DESIGNERS & MANUFACTURERS
OF INNOVATIVE
MATH, WEIGHING & MEASURING
PRODUCTS

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PAGES 1 - 10

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PRODUCTS DESIGNED WITH EDUCATION IN MIND



INVICTA PRODUCT BENEFITS

- 
SAFETY STANDARDS
 All products conform to the safety standards & requirements of EN71, ASTM, 16CFR and The Canadian Hazardous Products (Toy Regulations), and where appropriate carry the CE mark.
- 
RECYCLABLE
 Invicta will accept all products returned at the end of their working life for recycling.
- 
3 YEAR GUARANTEE
 All Invicta manufactured products are guaranteed against manufacturing defects for a full 3 years.
Details available upon request.
- 
SEAL OF APPROVAL & ENDORSEMENT
 Invicta's seal is displayed on all Education Packaging to confirm that the product has been both approved and endorsed by Invicta's Educational consultants.

SHAPING THE FUTURE

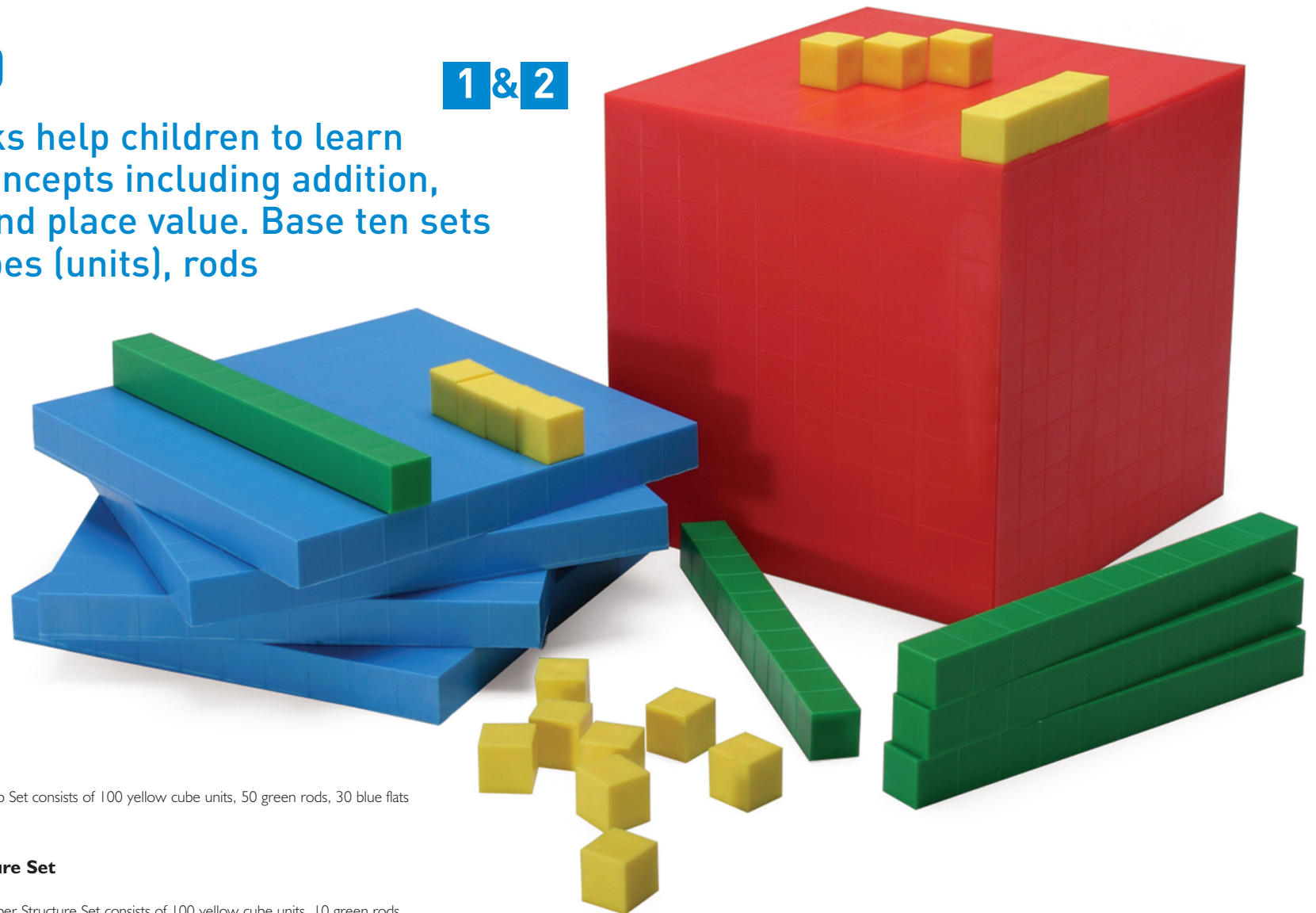
- 
 Established for over 65 years, Invicta has a history of innovation and cutting edge creative design of educational products.
- 
 Invicta offer robust products designed for schools.
- 
 Invicta's product range supports a cross-curricular approach to learning and has been specifically developed to meet the attainment targets.
- 
 Invicta is an Original Equipment Manufacturer (OEM) providing bespoke customer 'Own Brand' adaptations. Please contact the education team for further information.
- 
 Every item in the Invicta range has evolved from a high level of educational research & development combined with the highest standard of design.

MATH

BASE 10

1 & 2

Base 10 blocks help children to learn basic Math concepts including addition, subtraction and place value. Base ten sets consist of cubes (units), rods (tens), flats (hundreds) and blocks (thousands).

**1 Base 10 Group Set**
Ref No 163559

The original Invicta Base Ten Group Set consists of 100 yellow cube units, 50 green rods, 30 blue flats and 4 red blocks.

2 Base 10 Number Structure Set
Ref No 163659

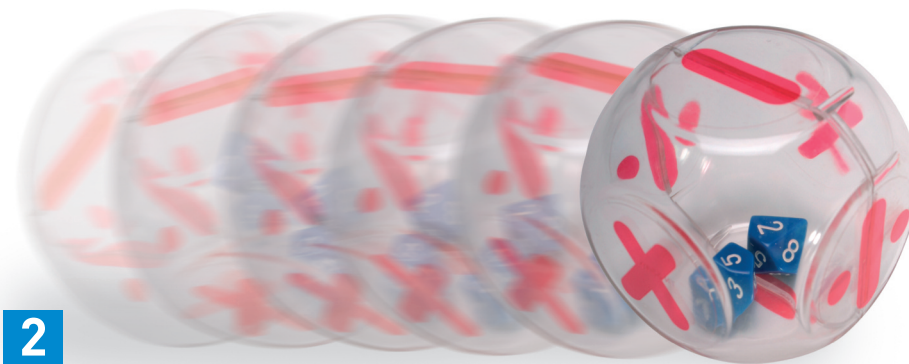
The original Invicta Base Ten Number Structure Set consists of 100 yellow cube units, 10 green rods, 10 blue flats and 1 red block.

The Number Juggler adds an element of fun to weighing for younger children.



1 Number Juggler
Ref No 178159

This clever balance adds an element of fun to learning equivalence, greater than and less than and simple addition and subtraction. The set includes 20 number weights and 2 bucket weights which enable children to play a game of simple logic and deduction. Complete with product guide.



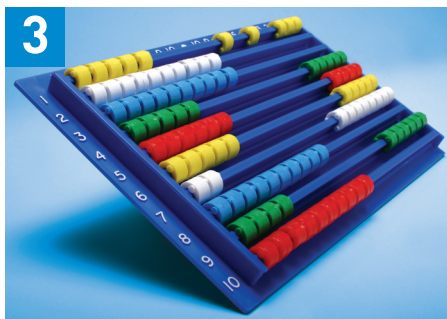
2

2 Sum Setter
Ref No 051859

A novel, self-contained device which offers virtually unlimited variations of all Math operations. A roll of the big clear die makes the two 10-sided dice land in a random sequence; the symbol uppermost on the die acts as the Math operation. The removeable symbols (+ - x ÷) allow teachers to match the levels of ability of their students. Complete with product guide.



2



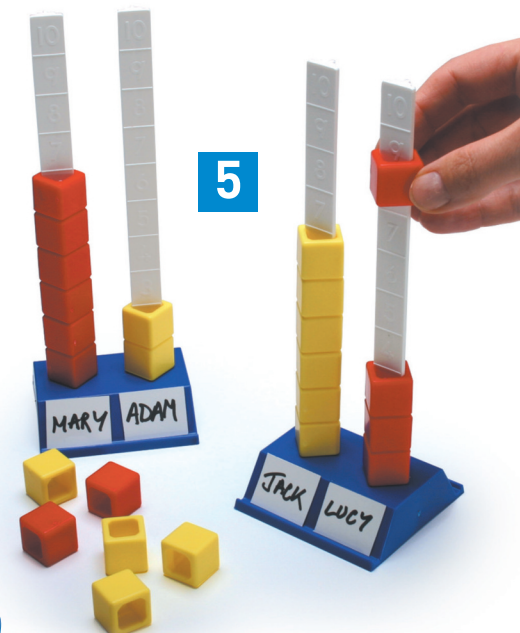
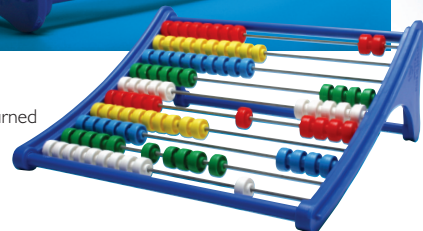
3 Slide Abacus
Ref No 132059

A traditional Abacus with beads in 5 colors and number grids horizontally and vertically. Complete with product guide.



4 Bead Frame Abacus
Ref No 036659

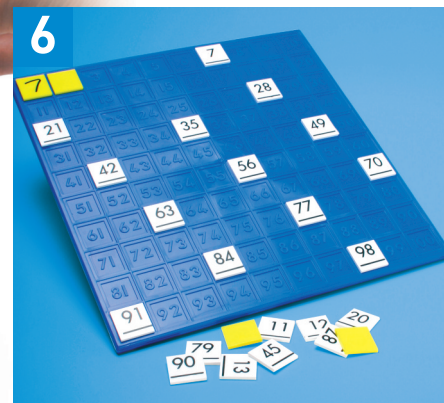
This cleverly designed Abacus can be used in an upright position or turned over and used on a table top at a 30 degree angle. The Abacus encourages children to explore number concepts such as matching, counting, number patterns and combinations, simple addition and subtraction.



5

5 Rod Abacus (x10)
Ref No 163459

This practical counting-up Abacus helps young children with counting and numeration activities. Includes 10 stands, 20 rods and 200 cubes. Suitable for group or individual work.



6

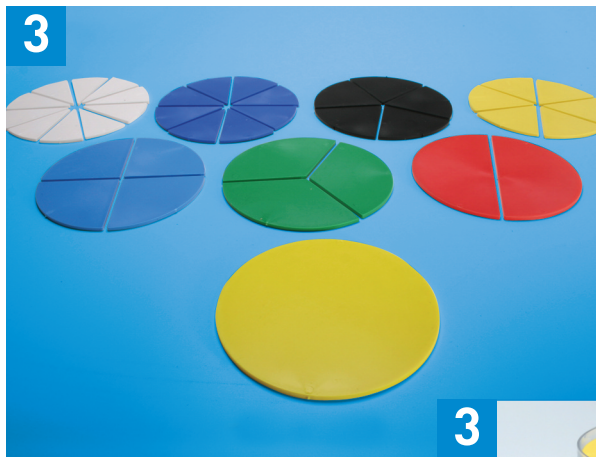
6 100 Number Board
Ref No 013359

A large number of Math activities are possible using this large board. The set includes the sturdy plastic board with 100 recessed and clearly numbered squares, 100 number tiles, 25 blank tiles and an instruction booklet. Children can explore counting and use the board for Math operations. Size 29cm x 29cm.



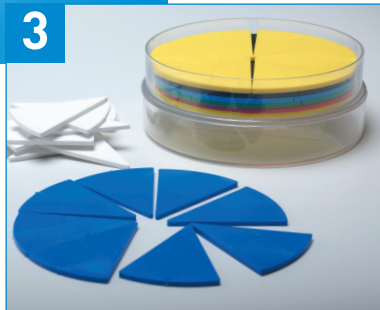
1 Fraction Cubes & Spheres
Ref No 051759

This 3-dimensional set not only reinforces the concept of the relation of fractions but adds the elements of decimals and percentages. Each 'complete' shape has a modular dimension of 8 cms., the same as the Invicta Large Shapes (Ref No 091859). The individual segments are clearly marked with the appropriate fraction, decimal and percentage value and special containers are provided to hold the spheres. Complete with product guide.



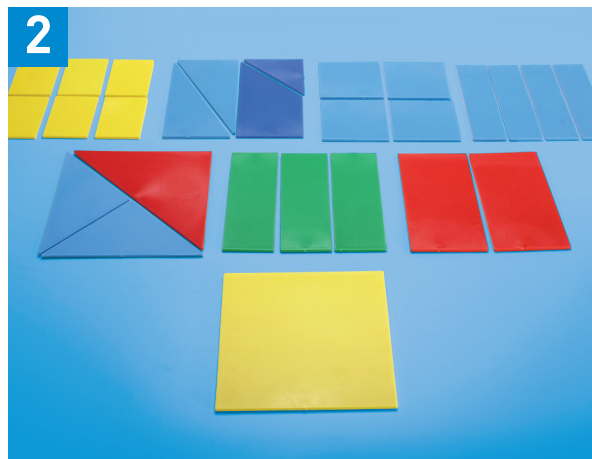
3 Fraction Circles
Ref No 176059

Seeing fractions as segments of a whole circle helps children to understand this important concept. The set includes the equivalent of 8 circles - $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{6}$, $\frac{1}{8}$, $\frac{1}{10}$ and a whole circle. The brightly colored pieces fit into the plastic storage box in which the whole circles can be constructed.



FRACTIONS

These sets help children to visualize and understand the concept of fractions, by demonstrating that fractions are parts that make up a whole.

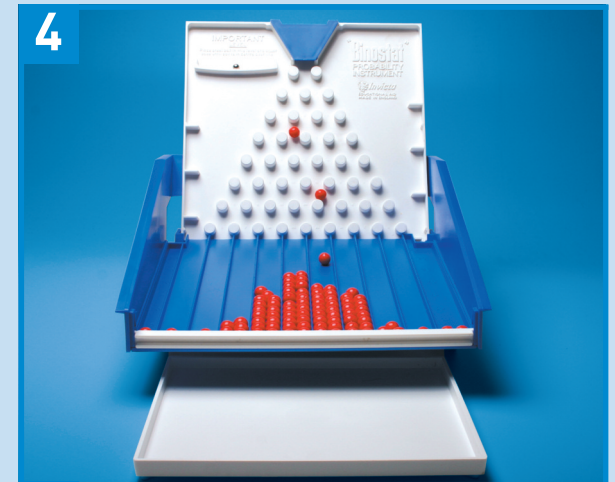


2 Fraction Squares
Ref No 175059

Children often have difficulty visualizing fraction concepts. However, this set helps to show that fractions are pieces that make up a whole. There are the equivalent of eight complete squares in fractions of $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{6}$ (2 combinations), $\frac{1}{4}$ (3 combinations) plus one whole. The plastic storage box can also be used as a work tray.



PROBABILITY



4 Binostat only
Ref No 119959

A device for the physical demonstration of binomial distribution and Pascal's Triangle.

5 Probability Kit
Ref No 113159

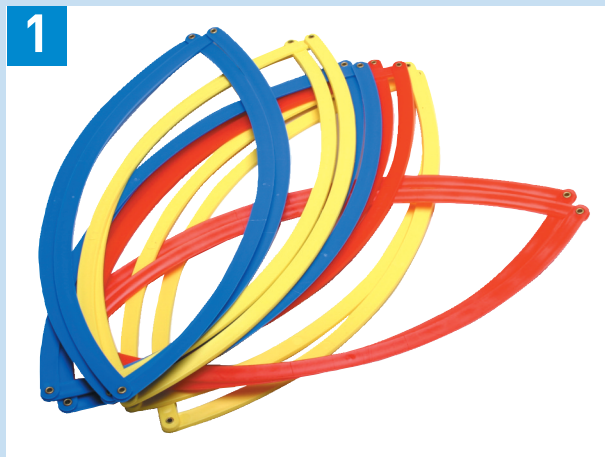
Practical demonstrations to prove the Theory of Probability and investigate random and selective sampling, binomial expansion and distribution. Includes a variety of apparatus, accessories and booklet as shown. Inclusive of Binostat.



Grouping Circles

I Grouping Circles Ref No 128659

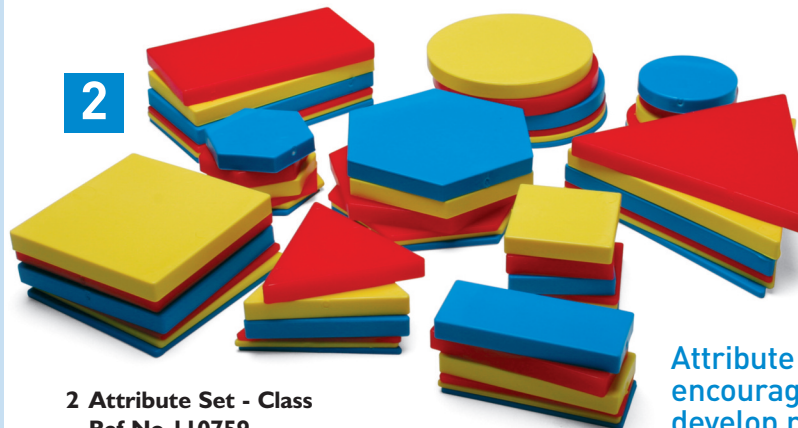
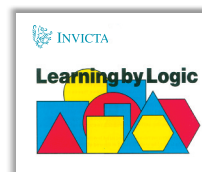
These flexible folding plastics circles can be used in a wide range of grouping and set activities with Invicta's Attribute Blocks. The set consists of 6 circles, 2 each of red, yellow and blue. Diameter: 50cm.



4

ATTRIBUTE SETS

Each set contains 5 shapes (square, circle, hexagon, rectangle and triangle), in 3 colors, 2 sizes and 2 thicknesses. All pieces are made of heavy duty plastics and are packaged in a storage box. The box lid can be used both as a shapes stencil and shapes sorter. The respective surface areas of the large and small shapes are shown below. The 'Learning by Logic' booklet is included with all Attribute sets.



2 Attribute Set - Class Ref No 110759

Large square size: 100cm²:25cm², ratio 4:1. Booklet included.
Pack size: 35cm x 23.5cm x 5cm.



3 Attribute Set Group Ref No 138159

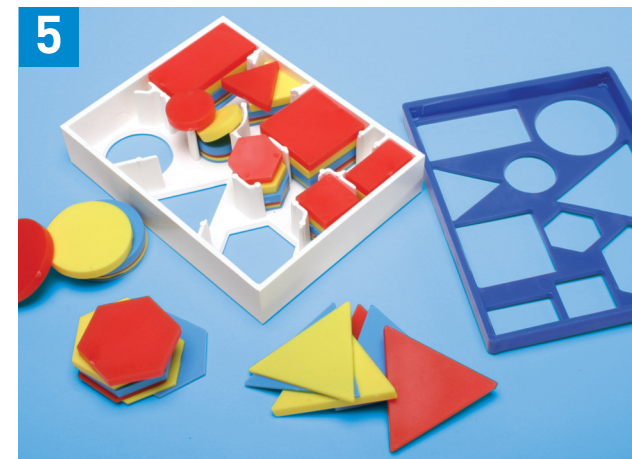
75cm²:25cm², ratio 3:1. Booklet included.
Pack size: 31cm x 23.5cm x 5cm.

Attribute Sets encourage and develop recreational play, sorting, shape recognition, tracing, understanding of 2D and 3D, measurement – areas and angles.



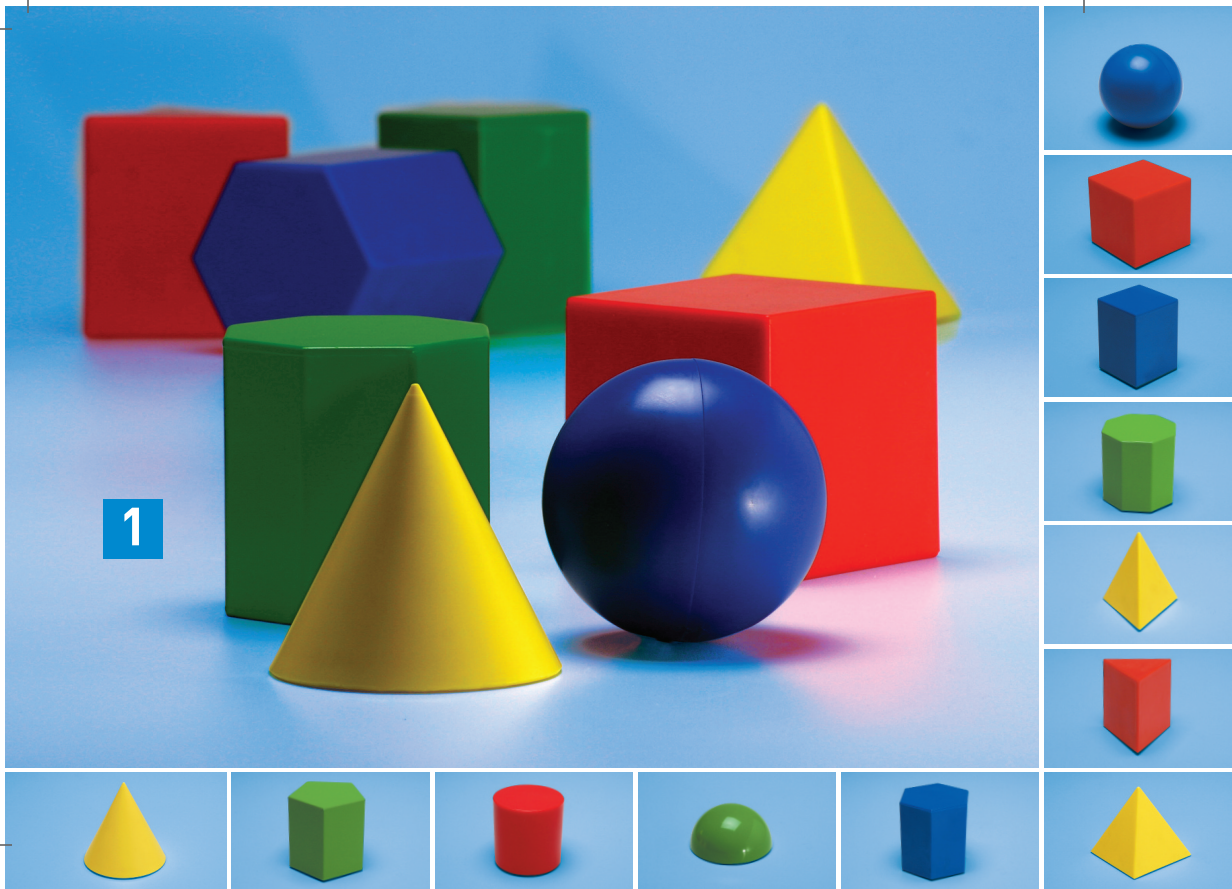
4 Attribute Set - Desk Ref No 127759

30cm²:10cm², ratio 3:1. Booklet included.
Pack size: 20cm x 15.5cm x 3.5cm.



5 Attribute Set - Pocket Ref No 127859

9cm²:3cm², ratio 3:1. Booklet included.
Pack size: 11.5cm x 9cm x 2.5cm.



**1 Large Shapes (x12)
Ref No 091859**

A collection of 12 large, bright, 3-dimensional plastics geometrical shapes. The set comprises 3 shapes of each color (red, yellow, blue). The shapes have a common 8cm dimension allowing exploration of the relationships between area, volume, shape, form, size, pattern as well as sorting and shape recognition. Contains: sphere, square cylinder, round cylinder, cone, cube, rectangular prism, hexagonal prism, triangular prism, square pyramid, a hemisphere, octagonal prism and pentagonal prism. Complete with product guide.



**2 Mini Math Shapes
Ref No 154059**

A comprehensive range of 3-dimensional geometric mini shapes. The set comprises of 4 shapes; cube, prism, cylinder and cone which are each supplied in 4 different sizes and colors, making a total of 16 shapes.



**4 Montessori Shapes
Ref No 158659**

A universally acclaimed product which contains 10 shapes with moulded lifters and 10 matching templates. Children have the option of using the shapes as stencils for tracing or for shape recognition and matching. The shapes are made of tough, washable plastics and are ideal for nursery and infant classes.



**3 Geo Strips
Ref No 014159**

What better way for children to learn about shapes than to make them? The set consists of 68 strips of various sizes, a box of connectors, a protractor and a set of 11 carefully graded work cards.

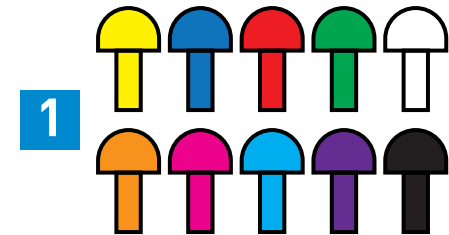




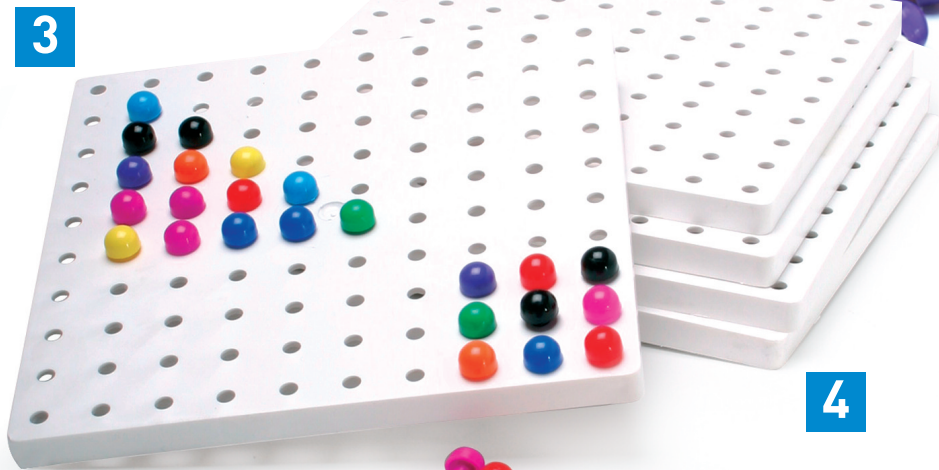
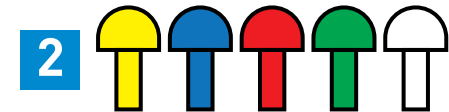
1
 Ten colors
 suitable for
 Montessori teaching

PINBOARDS AND PEGBOARDS

1 1,000 Assorted Pegs
Ref No 072159
 100 x 10 colors supplied in a
 storage box.



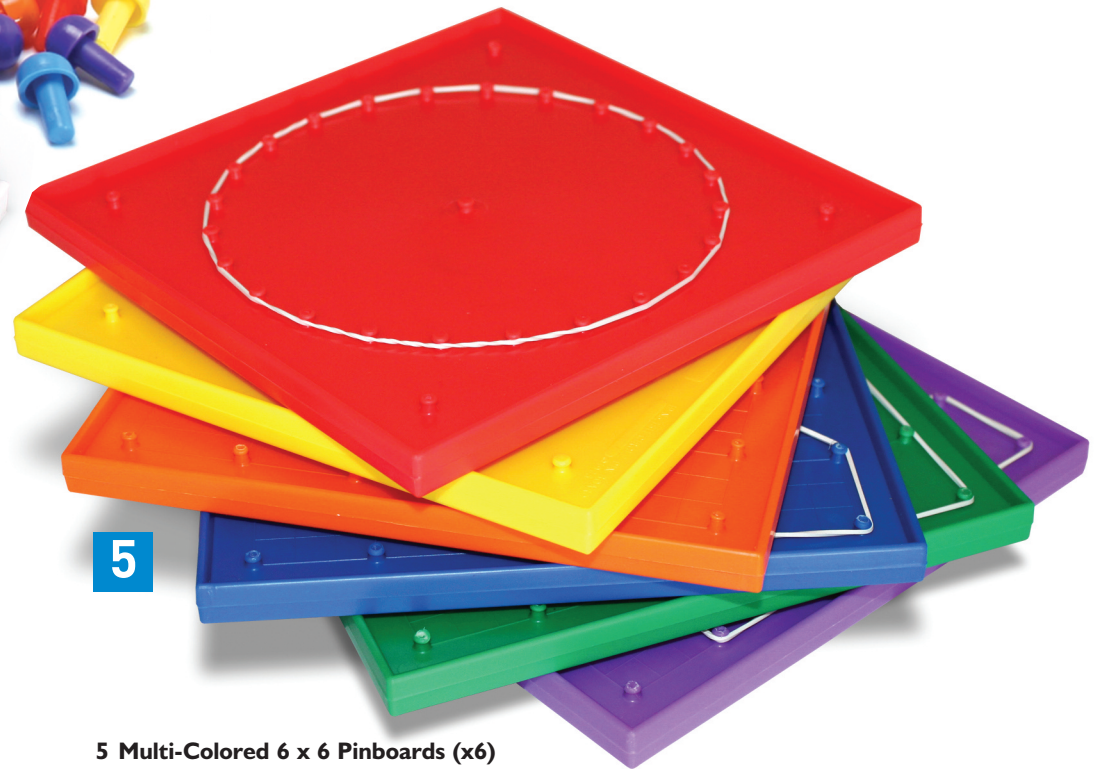
2 Ref No 072659
 200 x 5 colors supplied in a bag
 (not shown).



3 Pegboards & Pegs
Ref No 147759
 The set includes 5 square Pegboards each
 with 100 holes, 1,000 assorted colored
 mushroom Pegs and a leaflet containing creative ideas. Ideal for pattern, symmetry, sorting and sequencing work.

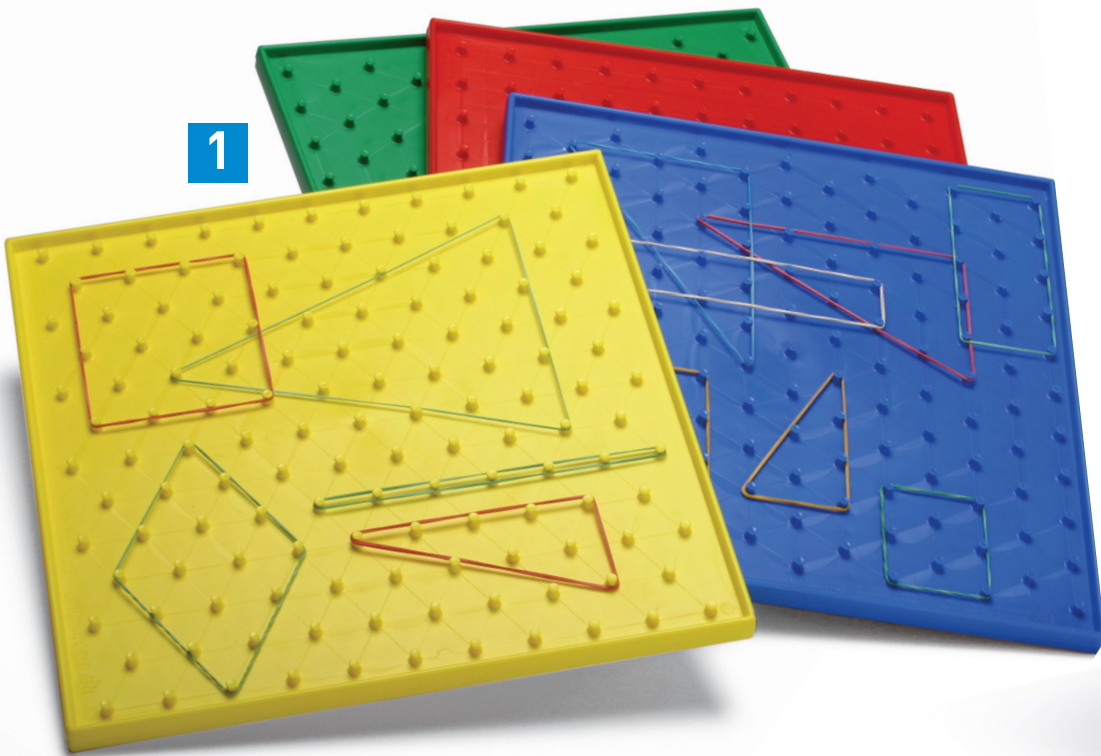
4 Peg Boards (x5)
Ref No 011459
 5 square Pegboards each with 100 holes.
 Supplied without pegs.

4



5 Multi-Colored 6 x 6 Pinboards (x6)
Ref No 150959
 This set of Multi-Colored Pinboards features a 3cm grid on one side and a circle board on the reverse of each board.
 Rubber bands are included.

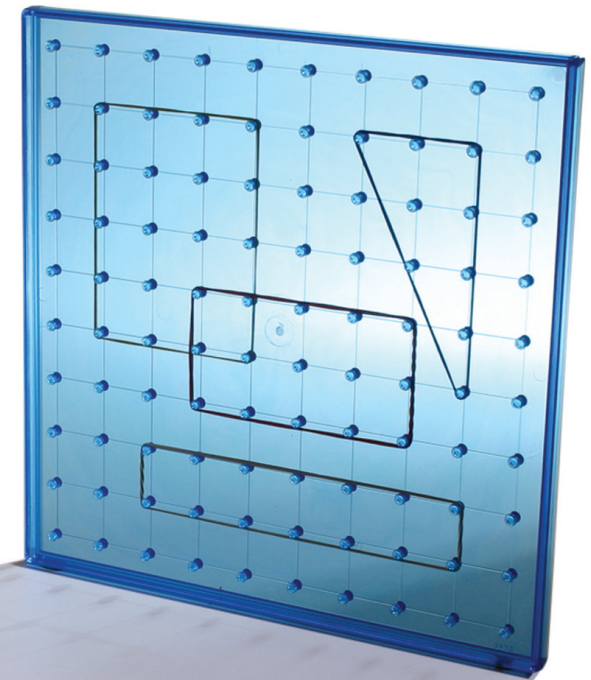
6



1 Multi-Colored Pinboards (x8)

Ref No 151059

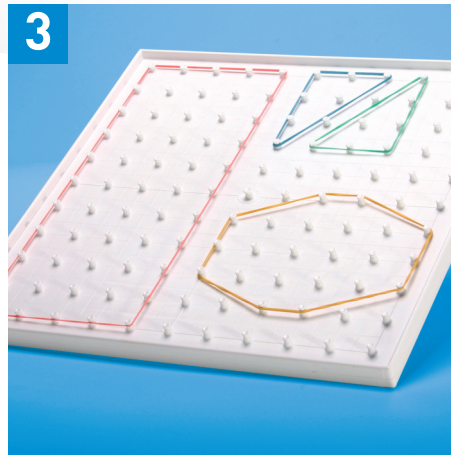
Make learning more fun with this pack of 8 brightly colored 11x11 pinboards which are isometric on one side and have 2cm squares on the reverse. These pinboards can be used for demonstrating geometric concepts, introducing the names of shapes, working out areas, symmetry work and fractions. Rubber bands are included.



2 Translucent 10 x 10 Pinboard

Ref No 091559

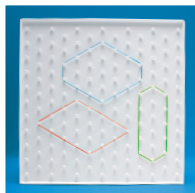
This 10 x 10 Translucent Pinboard is made in a shatterproof material and is especially useful for work on an overhead projector or lightbox. Rubber bands are included.



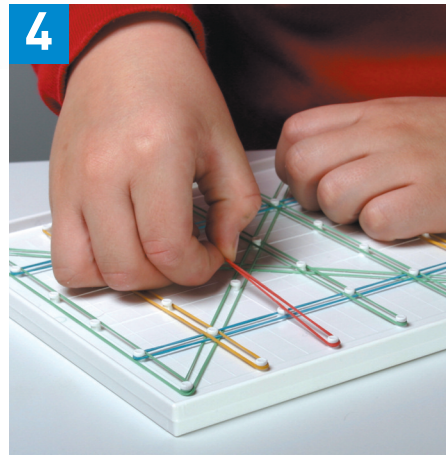
3 11 x 11 Pinboard

Ref No 151259

This 11 x 11 Pinboard features 2cm squares on one side and is isometric on the reverse. Rubber bands are included.



Reverse



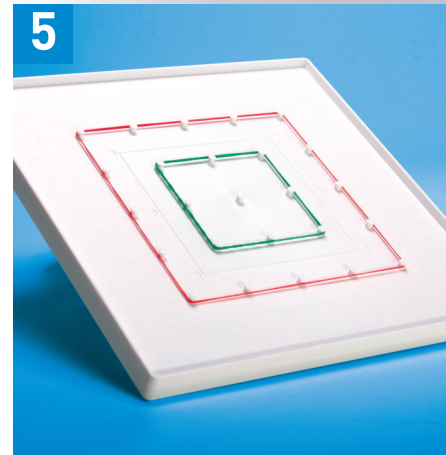
4 6 x 6 Pinboard

Ref No 151159

This 6 x 6 Pinboard features a 3cm grid on one side and a circle board on the reverse. Rubber bands are included.



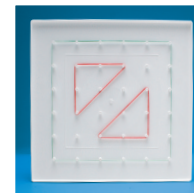
Reverse



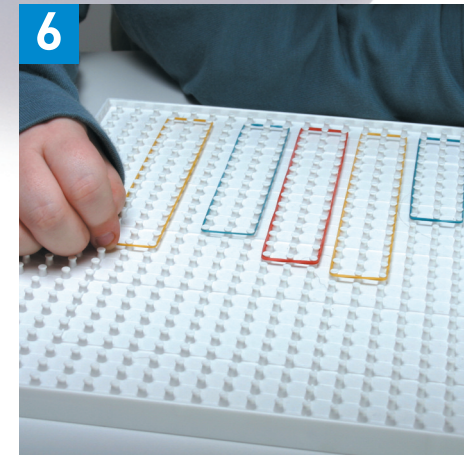
5 5 x 5 Pinboard

Ref No 151459

This Pinboard features a 5 x 5 (3cm x 3cm) grid on one side and a 6 x 6 (3cm x 3cm) grid on the reverse. Rubber bands are included.



Reverse

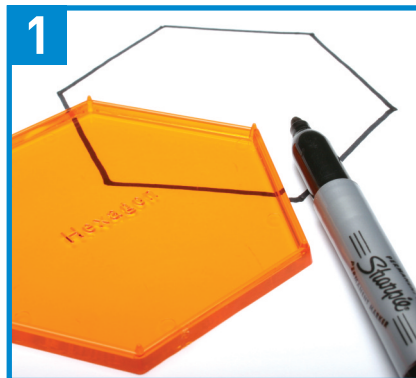


6 Centimetre Pinboard

Ref No 140659

A large pinboard with 700 pins which is ideal for block graphs. Rubber bands are included.

Geometric Tracer Set



3 Geometric Tracer Set Ref No 027859

The set contains 17 transparent shapes: octagon, hexagon, pentagon, square, equilateral triangle, rectangle, circle, ellipse, parallelogram, heptagon, chevron, kite, rhombus, scalene, trapezium, right hand triangle and isosceles triangle. The shapes have angled edges for 2-dimensional tracing or making networks to draw 3-D models. Each shape is named and wherever possible, they have common 5cm sides.



ISOTILES® An innovative Math resource designed by Math experts for teachers, with a comprehensive CD-rom that explores the 'Golden Ratio'.



2 ISOTILES® Classroom Pack Ref No 192059

10 Individual plastics containers each with 20 ISOTILES®, 10 of each shape plus 1 CD-ROM Workbook.

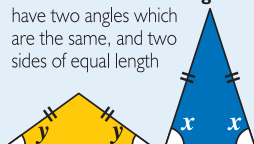


3 ISOTILES® Home Use Pack Ref No 192159

2 Individual plastics containers each with 20 ISOTILES®, 10 of each shape plus 1 CD-ROM Workbook.

BASIC: Isosceles triangles

have two angles which are the same, and two sides of equal length



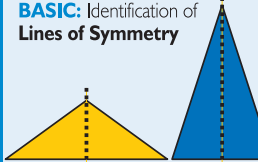
BASIC:

$$x + y + z = 180^\circ$$

All three angles of a triangle add up to 180°



BASIC: Identification of Lines of Symmetry

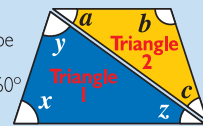


BASIC: Simple Tessellations

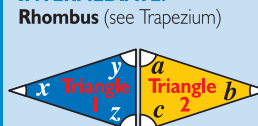


INTERMEDIATE: Trapezium

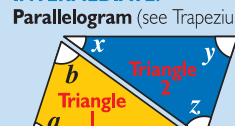
$x + y + z = 180^\circ$ & $a + b + c = 180^\circ$
Triangle 1 + Triangle 2 = Quadrilateral shape
 \therefore Triangle 1 + Triangle 2 = 360°
 \therefore Quadrilateral shapes interior angles = 360°
 \therefore The interior angles of Triangle 1 + Triangle 2 = 360°



INTERMEDIATE: Rhombus (see Trapezium)

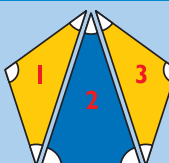


INTERMEDIATE: Parallelogram (see Trapezium)



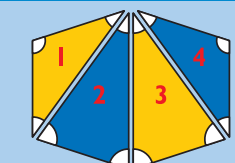
ADVANCED: Pentagon

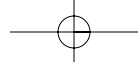
The 3 interior angles of one triangle = 180°
 \therefore The interior angles of three triangles = 540°
We therefore know that the interior angles of a Pentagon add up to 540°



ADVANCED: Hexagon

The 3 interior angles of one triangle = 180°
 \therefore The interior angles of four triangles = 720°
We therefore know that the interior angles of a Hexagon add up to 720°





Place Value Magic Ruler Class, Teacher & Student Versions

1 Place Value Magic Ruler Class Pack

Ref No I24359

Designed by teachers this pack consists of one large teacher Place Value Magic Ruler and ten small dry wipe student versions. The teacher version includes one set of removable place value tabs: units, tens, hundreds, thousands, hundred thousands, millions, tenths, hundredths, thousandths, hundred thousandths and millionths to enable the subject to be taught step by step. Also supplied is one removable decimal point, two commas, six zeros and seven of each number tab 1-9. For easy storage the tabs are provided in a plastic container. There are optional legs (to stand on a desk) a magnetic strip on the reverse for attaching to a magnetic board and holes to enable the product to be screwed to a wall. Each student Place Value Magic Ruler has a sheet of removable stickers showing place headings which can be applied depending on the student's ability and speed of learning. A product guide in several languages is included.



2 Place Value Magic Ruler Teacher Pack (1 Large)

Ref No I24559

Included in the Teacher Pack you will find one large Place Value Magic Ruler, removable place value tabs: units, tens, hundreds, thousands, hundred thousands, millions, tenths, hundredths, thousandths, hundred thousandths and millionths to enable the subject to be taught step by step. Also supplied is one removable decimal point, two commas, six zeros and seven of each number tab 1-9. For easy storage the tabs are provided in a plastic container. There are optional legs (to stand on a desk) a magnetic strip on the reverse for attaching to a magnetic board and holes to enable the product to be screwed to a wall. A product guide in several languages is included.

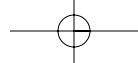


3 Place Value Magic Ruler Student Pack

Ref No I24459

A set of ten small dry wipe Place Value Magic Rulers. Complete with ten sheets of removable stickers showing place headings which can be applied depending on the student's ability and speed of learning. A product guide in several languages is included.

Dry wipe pen not included.





1

**1 Math Balance®
Ref No 050359**

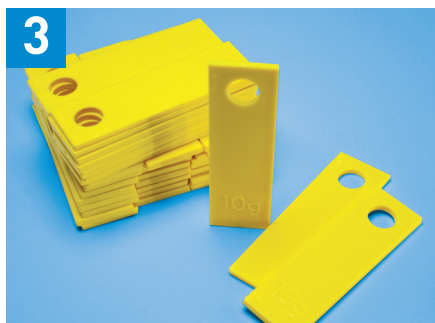
Children easily perform all four Math functions (+ - x ÷) with immediate visual and physical verification of their results. The reverse of the number strip may be printed/written on if required. The balance can be completely dismantled for storage. Includes 20 x 10g weights, which are 10cm long and 3cm wide. Complete with product guide.



2

**2 Balance Kit
Ref No 050559**

This Balance Kit contains common components so that the Invicta Bucket Balance (Ref No 050459), Simple Scales (Ref No 050259) or Math Balance® (Ref No 050359) can be quickly assembled. Contents of buckets not included.



3

**3 Hanging Weights (x40)
Ref No 010159**

A set of 40 10g weights which can be used with the Invicta Math Balance® (Ref No 050359) and other balances.

10

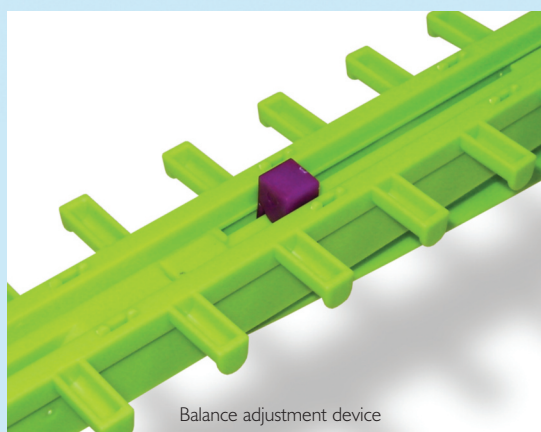


4

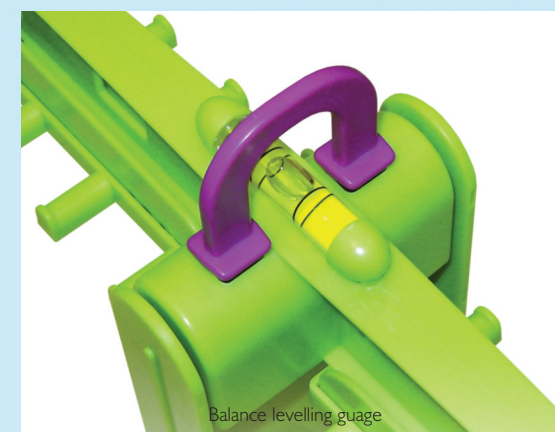
**MK3 MATH
BALANCE**

**4 Mk3 Math Balance
Ref No 152559**

The MK3 Math Balance has the additional feature of a liquid leveler for complete accuracy. It can hold a maximum of 10 weights (5 on each side of the arm) on each number giving far greater scope for working with equations, fractions, percentages and decimals. Students can easily perform all four Math functions (+, -, x, ÷) with immediate verification of the results. It is supplied with 10g x 20 and 5g x 20 weights. There are interchangeable inserts showing numbers 1 – 10 and a sheet of low tac adhesive is supplied, which can be written on if required. A detailed teacher guide with suggested lesson plans and a quick start guide are provided.



Balance adjustment device

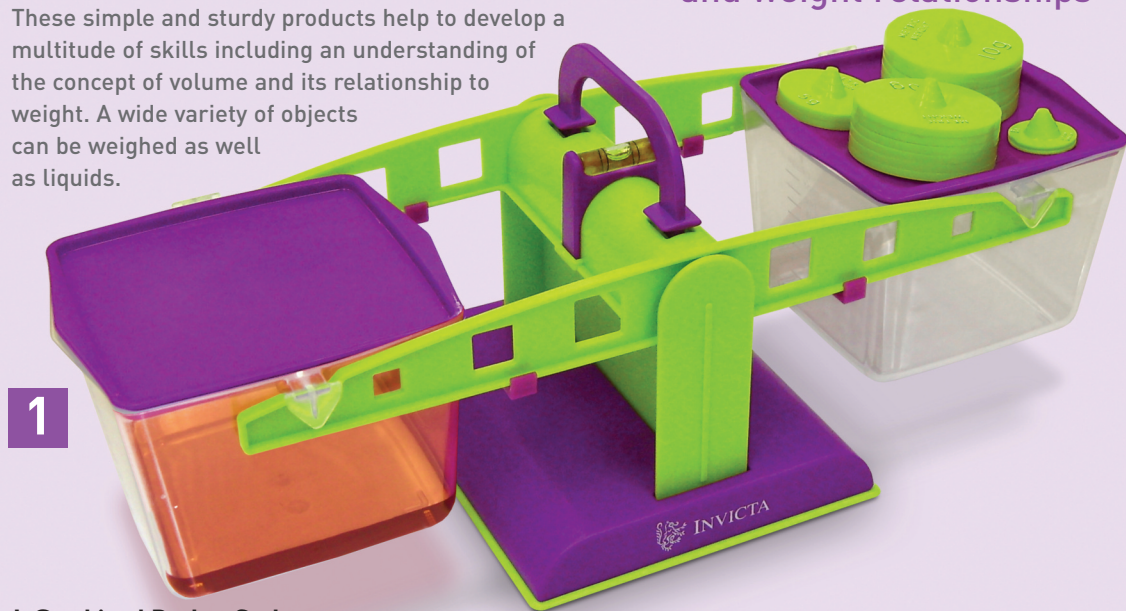


Balance levelling gauge

WEIGHING

An introduction to understanding volume and weight relationships

These simple and sturdy products help to develop a multitude of skills including an understanding of the concept of volume and its relationship to weight. A wide variety of objects can be weighed as well as liquids.



1

1 Combined Rocker Scales Ref No 152359

This Combined Rocker Scale has been designed to enable the teacher and/or student to use either 1/2 litre or 1 litre clear containers all of which have 100ml graduated scales for liquid measurement and beveled lids for platform weighing. The scales are fitted with a liquid leveler for total accuracy. The scales are supplied with 60 clearly marked stackable weights (1g x 20, 5g x 20 & 10g x 20). A detailed teacher guide with suggested lesson plans and a quick start guide are provided.



1

Rocker with 1/2litre containers

Balance adjustment device

Balance levelling gauge

Weights



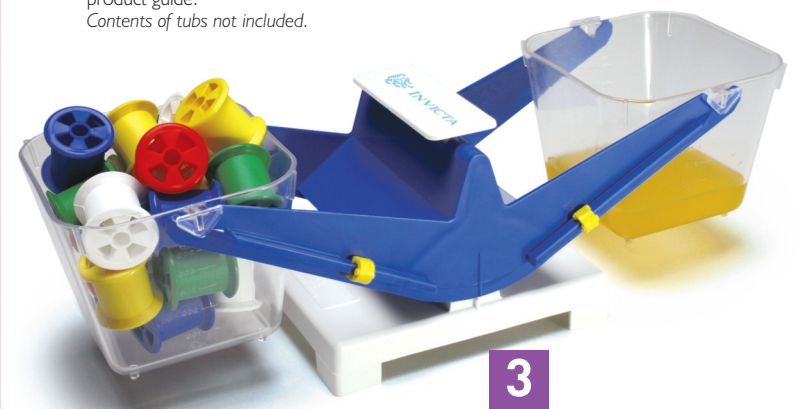
2

2 Rocker Scales - 1 Litre capacity Ref No 090559

The 1 Litre Rocker Scales have transparent tubs marked with 100ml graduations. They are made in a tough, washable material which will withstand many years of classroom use. They are sensitive enough for 1g to register a positive movement and the tubs are designed to give accurate readings even when objects are placed off centre. Complete with product guide.

Contents of tubs not included.

Designed, developed and manufactured in consultation with leading educationalists, teachers and children.

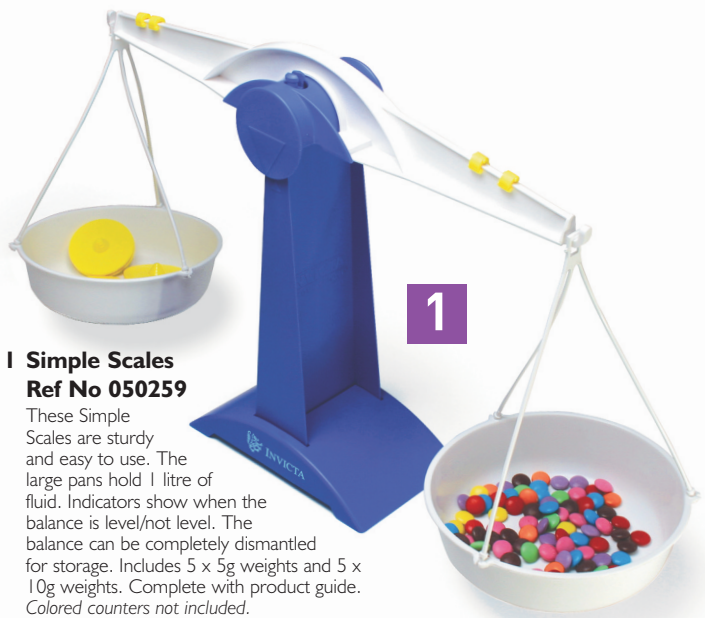


3

3 Rocker Scales - 0.5 Litre capacity Ref No 152259

The 1/2 Litre Rocker Scales have transparent tubs marked with 100ml graduations. They are made in a tough, washable material which will withstand many years of classroom use. They are sensitive enough for 1g to register a positive movement and the tubs are designed to give accurate readings even when objects are placed off centre. Complete with product guide.

Contents of tubs not included.



1 Simple Scales
Ref No 050259

These Simple Scales are sturdy and easy to use. The large pans hold 1 litre of fluid. Indicators show when the balance is level/not level. The balance can be completely dismantled for storage. Includes 5 x 5g weights and 5 x 10g weights. Complete with product guide. Colored counters not included.

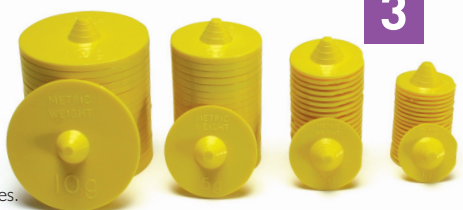


2 Bucket Balance
Ref No 050459

A variety of relatively heavy items can be weighed in the 2.5 litre capacity buckets. The robust balance can be completely dismantled for storage. Complete with product guide. Contents of buckets not included.

3 Stackable Weights
Ref No 150759

A set of 80 clearly marked Stackable Weights (20 each of 1g, 2g, 5g and 10g.) for use with all of Invicta's Scales, including the Bucket Balance, Simple Scales and Rocker Scales.



4 Combined Pan & Bucket Balance
Ref No 152459

This new Combined Pan & Bucket Balance has been designed to enable teachers and/or students to use either clear pans or clear buckets using a single frame fitted with a liquid leveler. The buckets are marked with 100ml graduated scales and are supplied with lids. Included within the kit is a set of 60 clearly marked stackable weights (1g x 20, 5g x 20 & 10g x 20). A detailed teacher guide with suggested lesson plans and a quick start guide are provided. Cotton reels not included.



MEASURING

Height, length, depth, width and volume...

Invicta's range of measuring and estimating products are designed to withstand the everyday knocks and constant use of a typical school day. Suitable for both indoor and outdoor use. All of these products help to expand children's measuring and estimating experiences.



The Height Measure packs neatly away and can be carried by adults or children

1 Height Measure Ref No 0956

Developed with a leading paediatrician and approved and endorsed by **The Child Growth Foundation**. Children can monitor and record their own heights and then have fun drawing graphs and calculating Body Mass Index. Measurement scales are clearly graduated in both metric and imperial values. A project guide is included. The Height Measure, complete with carrying handle, packs neatly away and can be carried by adults or children. Measures to 2m (6ft 6in). Stored size: 62cm x 36cm.

2 Teachers and children can use this product to measure, record and calculate areas and volumes on a whole range of objects.



2 Foot, Hand and Object Measure Ref No 052259

This measure includes metric and imperial values and international sizes. Approved and endorsed by **The Child Growth Foundation**. Teachers and children can use this product to measure, record and then calculate areas and volumes on a whole range of objects.



3 The Metric Calliper can be used to measure the depth, width and thickness of most shapes.

3 Metric Calliper Ref: 139759

Measures most shapes from 1mm to 30cm by simply reading measurements through a single viewing window. Designed for calculating areas and volumes.



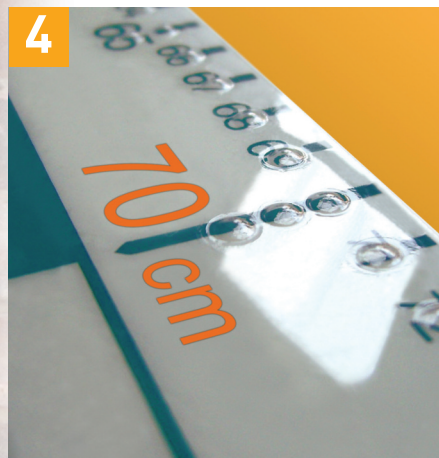


1



1 Metre Stick
Ref No I24259

This measuring stick is clearly marked with 1, 5 and 10cm graduations and is made with rounded edges for safety. The metre stick is presented with turquoise and orange numbers on a white background.



4 Braille Metre Stick
Ref No I24260

This measuring stick is clearly marked with 1, 5 and 10cm graduations with Braille overlay for the blind/partially sighted and is made with rounded edges for safety. Developed in association with the RNIB (Royal National Institute for the Blind)



2 Tape Measure (x10)
Ref No 094559

A pack of 10, nylon-reinforced plastics Tape Measures, 1m long x 3cm wide. Chunky and easy to hold, with bold 1cm markings and 10cm increments. This handy tape is made in a flexible, non-stretch and washable material. Complete with product guide.



3 Number Rule
Ref No 080559

A 1m triangular ruler, with a 100cm scale on each side. Blocks of color on each side indicate 10cm, 20cm and 25cm, reinforcing the concept of fractions, decimals and percentages. The ruler, which can be used outdoors, is also an excellent line drawing product for the teacher. *Cubes not included.*



5 Millimetre Tape Measure (x10)
Ref No 094659

A pack of 10 tough, nylon-reinforced plastics Tape Measures, 1m long x 3cm wide. Chunky and easy to hold, with bold 10mm markings and 1mm increments. This handy tape is made in a flexible, non-stretch and washable material. Complete with product guide.



6 Comparison Rule
Ref No 080459

A 1m triangular ruler, with an inches scale on one side, centimetres on another and millimetres on the third. Blocks of color on each side indicate feet, 10cm and 100mm, reinforcing the concept of fractions, decimals, percentages and the comparison between metric and imperial measurements. The ruler, which can be used outdoors, is also an excellent line drawing product for the teacher.

LIQUID MEASUREMENT

These sets of measuring containers of differing shapes help children to understand the concept and relationship of volume.



1



1

1 Capacity Measures - 4 containers Ref No 034359

This set of 4 Measures holds 125cm³, 250cm³, 500cm³ and 1 litre of fluid respectively. Fill containers to the specially designed cut-out fill line and excess liquid will spill out ensuring the correct capacity is measured. Strong lifting tabs enable the containers to be carried anywhere without spillage. Made from tough, resilient material to withstand heavy materials such as sand.

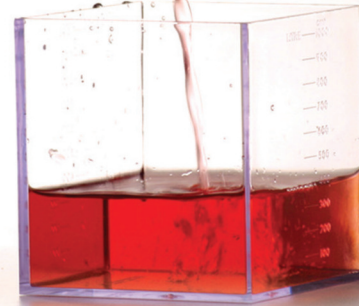
2 Litre Set - 5 containers - regular shapes Ref No 120559

The Litre Set contains a flat cylinder, cube, rectangle and one litre cylinder, which all hold 1 litre and a half litre cylinder. Each is clearly marked so that smaller amounts can be measured.



Half Litre Cylinder

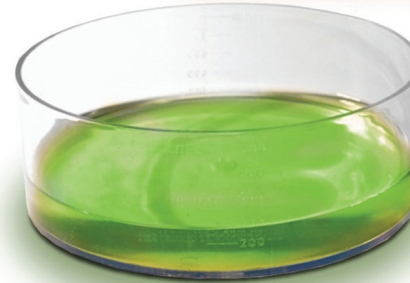
Cube



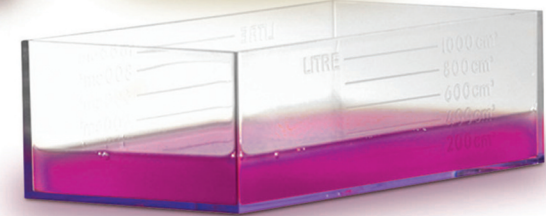
2



One Litre Cylinder



Flat cylinder



Rectangle

3 Litre Extension Set - 3 containers - irregular shapes Ref No 051959

These 3 unusual-shaped containers which each hold 1 litre, complement the Litre Set (Ref No 120559) and reinforce the concept of volume. The shapes are a funnel, triangle and elliptical.



Funnel

3



Elliptical

Triangle



5 regular shaped containers

3 irregular shaped containers

Trundle Wheel



1 Trundle Wheel
Ref No 050059
 Designed for durability with a rubber tyre to maintain accuracy. The pointer on the wheel helps children to measure intermediate distances. Ideal for calculating distances, shapes, areas and angles. Incorporates a clicker that can be adjusted from OFF to every 10cm and to every metre.



2 Trundle Wheel Counter
Ref No 050159
 Accurately counts to 9999 metres, or it can be set to register every 10cm to a maximum of 999.9 metres. This robust counter presents the opportunity to extend the activities of the Trundle Wheel. Designed to fit in place of the standard clicker.

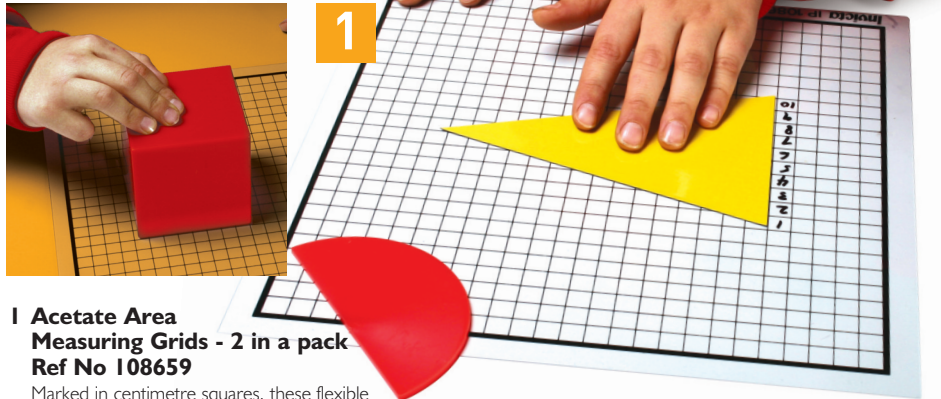


Invicta's Metrilog can measure any regular or irregular object.



3 Metrilog
Ref No 146459
 A mini 'Trundle Wheel' which has a variety of uses in measuring the circumference, perimeter or dimensions of virtually any regular or irregular object. It will measure up to 99cm within a 5% tolerance. With a ridged wheel, easy-to-grip handle and a clear viewing window. Excellent for map work. Complete with product guide.





1 Acetate Area Measuring Grids - 2 in a pack Ref No 108659

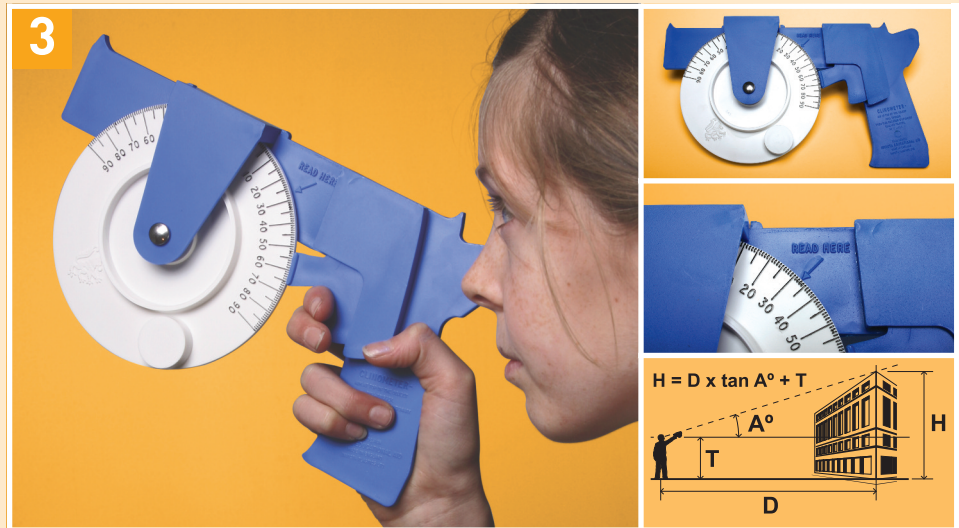
Marked in centimetre squares, these flexible washable grids are ideal for calculating areas of regular or irregular shapes, quadrant and nature study work. Can be used with an overhead projector.

Invicta's Theodolite is manufactured in robust materials to withstand outdoor use.



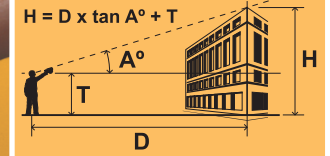
2 Theodolite Ref No 129259

Manufactured in robust materials to withstand outdoor use. The strong adjustable legs are telescopic for easy storage. The level indicator ensures accurate set-up. Both the horizontal and vertical scales move and measure to an accuracy of 0.5°. Complete with product guide.



3 Clinometer - Mk 1 Ref No 025059

A traditional lightweight angle-measuring instrument to calculate heights. Complete with product guide.



4 Clinometer - Mk 2 Ref No 050659

A compact Clinometer with no external moving parts and a combined 'sighting' angle-reading eyepiece. A viewing window on the side of the Clinometer allows a second person to check a reading. All angles in degrees followed by a plus or minus to indicate an upward or downward slope. Complete with product guide.

Invicta ensures that all products designed and manufactured conform with our Clients' requirements.

We wholeheartedly support both environmental and ethical trading practices.

The polymers we use are all heavy metal free.

We are able to manufacture in recyclable plastics, water soluble bio-polymers (hot and cold), fully biodegradable bio-polymers and degradable polymers with the aim of contributing to a 'sustainable' future for plastics in the developing world.

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