## MATHS GUBS

## HOW TO START A MATHS CLUB

## A GUIDE TO SETTING UP A MATHS CLUB IN YOUR COMMUNITY, NGO OR SCHOOL

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SUMERACY
NUMERA
CHARR
PROJECT

## WHAT IS A MATHS CLUB?

Maths Clubs provide fun, exciting and engaging maths activities for learners in Grades 1-6. The lesson plans and activities are designed to build strong number-sense skills and a love for mathematics.

After school Mathematics Clubs are an opportunity for students to learn and enrich their mathematical experience in ways that are free from curriculum and assessment driven teaching practices The clubs are conceptualised as supportive communities where sense making, active mathematical engagement and participation, and mathematical confidence building are emphasised. Individual, pair and small group interactions with mentors are the dominant practices with few whole class interactions.

The curriculum is a contextual guide for what is nationally expected of learners but individual learner numeracy levels guide
content and activities.

The clubs have been set up in such a way that both the needs of the whole group and that of the individual learners in the club drive the club 'curriculum'. In other words, we work from where the learners are and attempt to develop
their learning trajectory from that point.

## WE HAVE FOUND CLUBS

 TO BE USEFUL FOR:Getting boys and girls to mix with each other through collaborative work

Getting learners to talk to each other and the mentor about their maths thinking.

A CLUB CAN FOCUS ON Maths Recovery

Challenging beyond potential

Individualised attention
Strengthening mathematical dispositions, confidence and trajectories

Establishing $2^{\text {nd }}$ sites of learning using the "Pay-itforward" concept

## CLUBS WORK BEST WHEN...

...there are smaller groups of learners - perhaps between 10 and 15 and a mix oflevels. Some schools offer clubs for remediation only, whilst others run clubs for extension.

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## CLUB RULES

We listen to each other's ideas
No laughing when people make mistakes

No hitting, kicking, biting, bullying

No telling tales

CLUB ETHOS
These informal learning spaces allow the learners opportunities to
Argue about mathematics
Explain how somengene with mathematics and sense making as well as for
Ask questions worked out
Make mistakes as learning happens by making and discussing
mistakes
Speak their own language
Cross things out, be untidy


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One concept that works well in the clubs is the ‘Pay-It-Forward' concept. Learners
are taught a numeracy game using a simple cost effective resource they have been
given or have access to in the club (e.g. a pair of dice, a pack of cards).
The idea is that the learners must teach/play this game with at least two other
people in their community (siblings, cousins, parents, grandparents, friends etc.)
and promise to 'Pay It Forward'. Many of these games are quite simple but
critically involve the development of numeracy proficiency. 2nd sites of learning
like this are often taken for granted in middle class families where card and dice
games are part of children's lives. Club learners are also encouraged to work with
others on the "Fun with Maths' supplement published in Grocott's in 2012.
The supplement is available from:

## WHAT DO YOU DO IN MATHS CLUBS?



Developing efficient strategies for working with numbers
ENQUIRE ABOUT OUR MATHS CLUBS STARTER BOXES FOR R500! THEY INCLUDE:

Problem solving
Playing cards, dice, white board,
pens, cloths and all the starter
Puzzles resources, worksheets and games

## Using a manipulative etc

Interested in running a club in your community? The Pushing for Progression programme workbooks can help get you started. Ideally it would be helpful for your club facilitators to have training on the Pushing for Progression programme. Contact anga@olico.org to find out if there is training in your region and when the next schedule training will be.

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