

Mathematical Fluency in EYFS

2015/2016

- North West Hub 3 schools piloted programme
- Programme proved very successful in all 3 schools

2016/2017

- Selected 11 more NW schools to participate
- St Anne's Catholic Primary 1 of only 3 Liverpool schools chosen to take part
- We began programme Autumn 2016 with current Reception/Nursery

Mathematical Fluency in EYFS

- Cardinal Number - the quantity - how many
- Ordinal Number - the order 1st, 2nd, 3rd
- Nominal Number - name/label eg. Telephone number
- Shape, Space & Measure

Mathematics Curriculum EYFS

Spiral Curriculum

- Building on previous learning
- Introducing concepts
- Re-visiting previously taught content

Concrete, Pictorial, Abstract

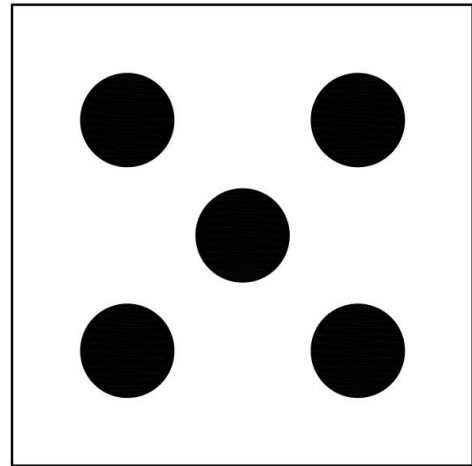
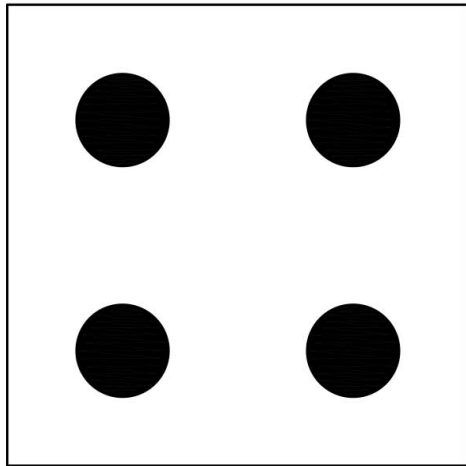
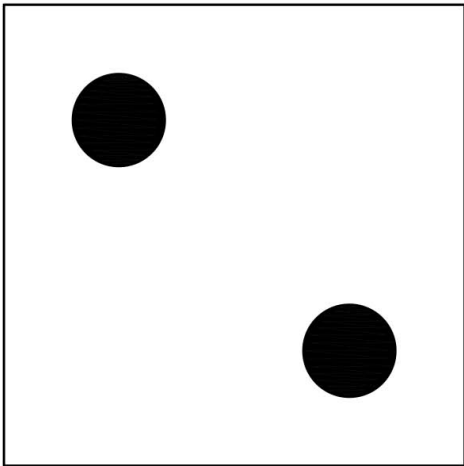
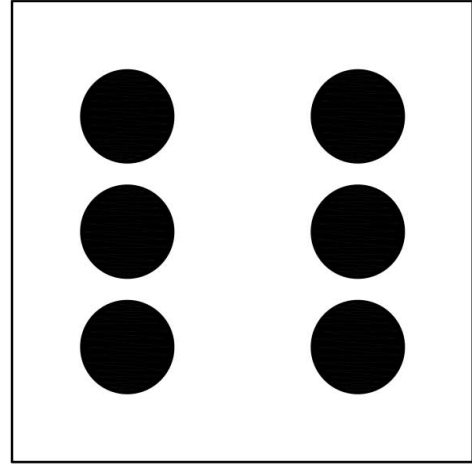
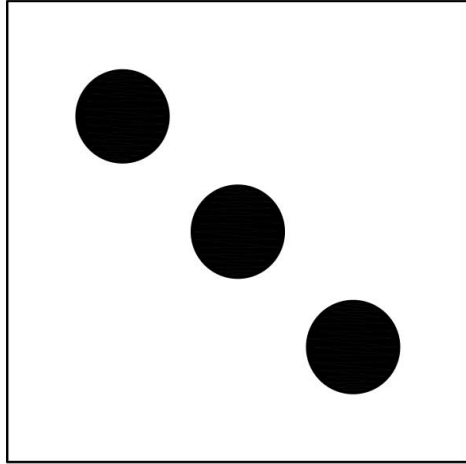
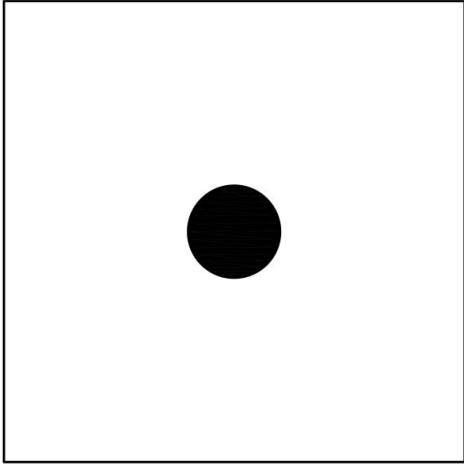
- Real objects/ experiences/ contexts
- Pictorial Images/ photographs/ representations
- When children are ready, written numbers

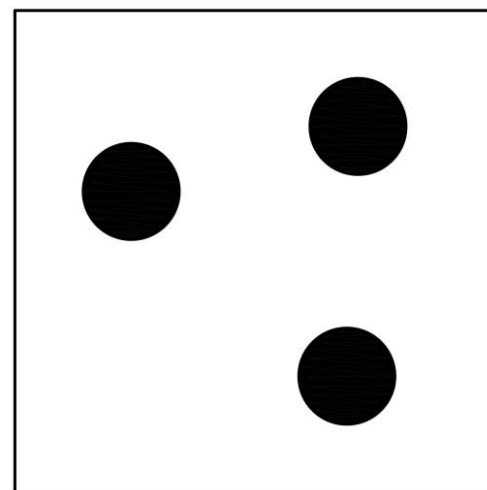
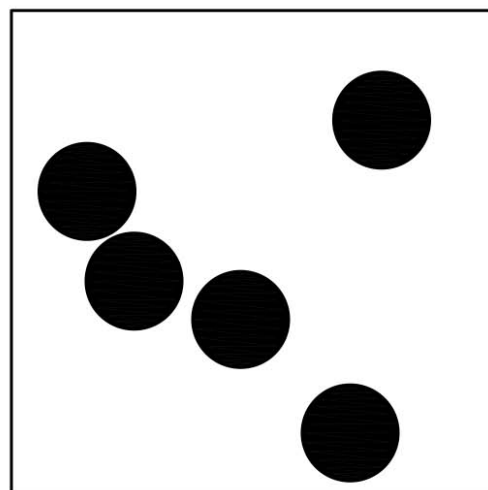
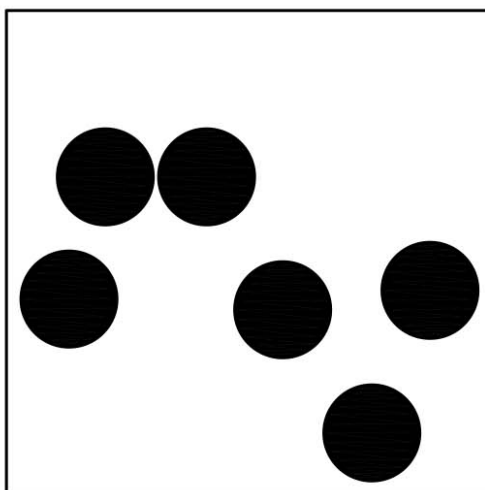
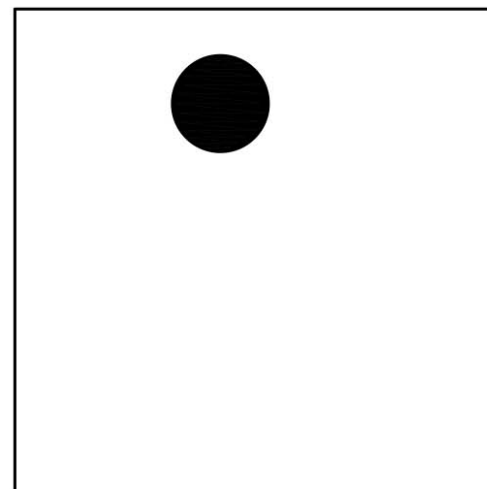
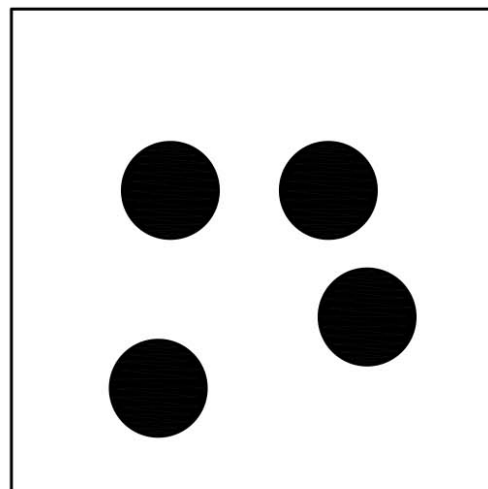
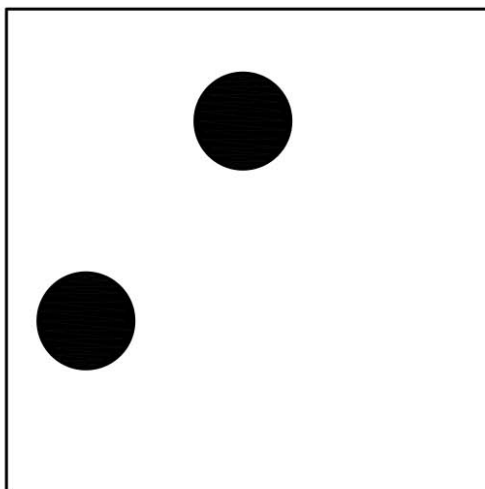
Progression

- Time given to children to explore own ideas
- Adult supports understanding
- Introduction of mathematical language/symbols

Subitising

- The ability to instantly recognise the number of objects in a small group without the need to count them.





Changes

- One number per week in Reception
- Expected fluency to 10 by Christmas
- Revisit & secure fluency for children who need it
- Next step for children who are fluent

What will my child learn?

Use single objects

Use claps, jumps, sounds to count 1 of each

1 more/1 less

Share 1 each

1st Place, 1st instruction

Teach circle/sphere/oval

Explore 1p

1 o'clock

1 minute

1 tally mark

1 in a bar chart

Songs/stories featuring one

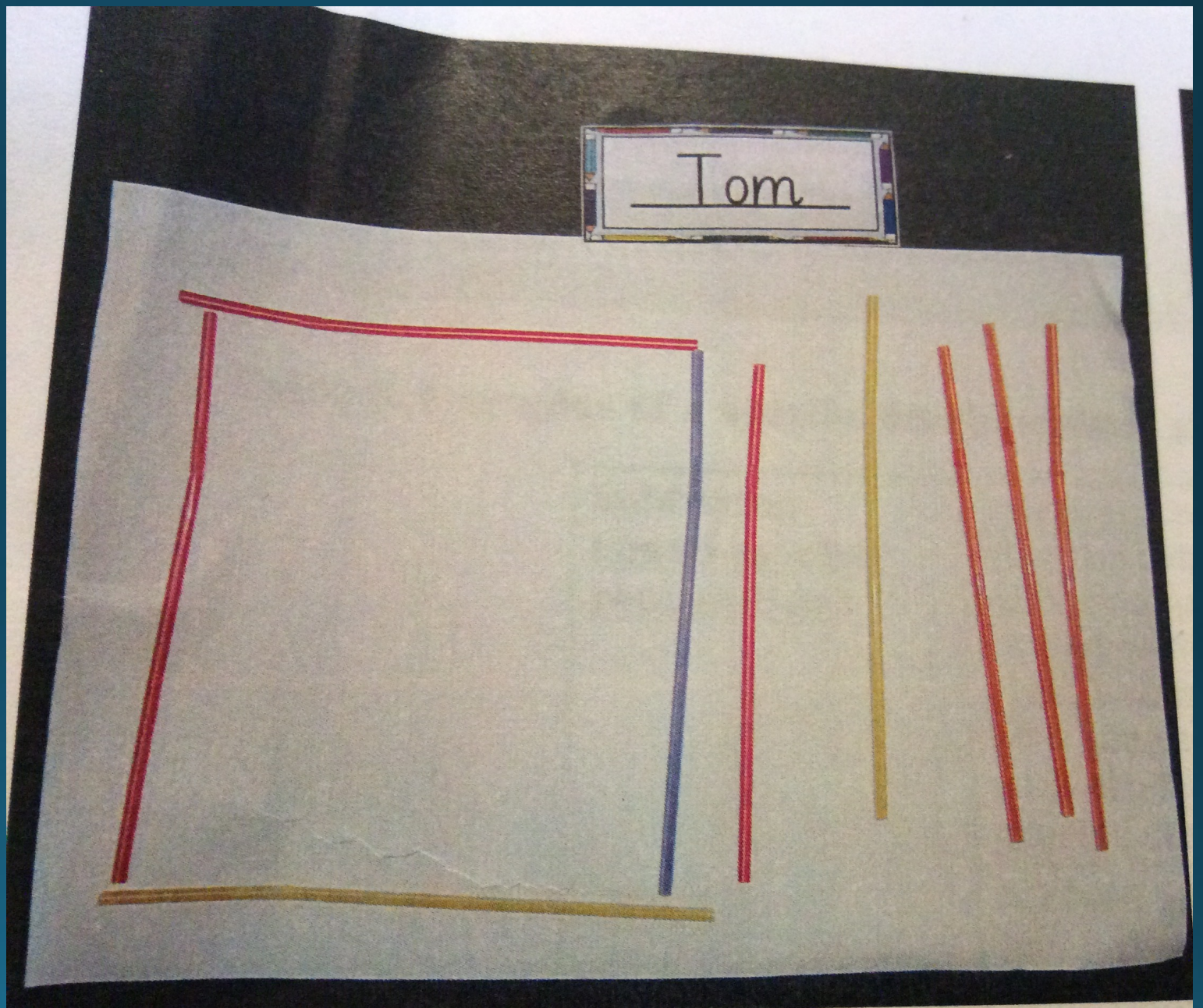
Recognise numeral 1

Calculations/Grouping

eg. Nine straws

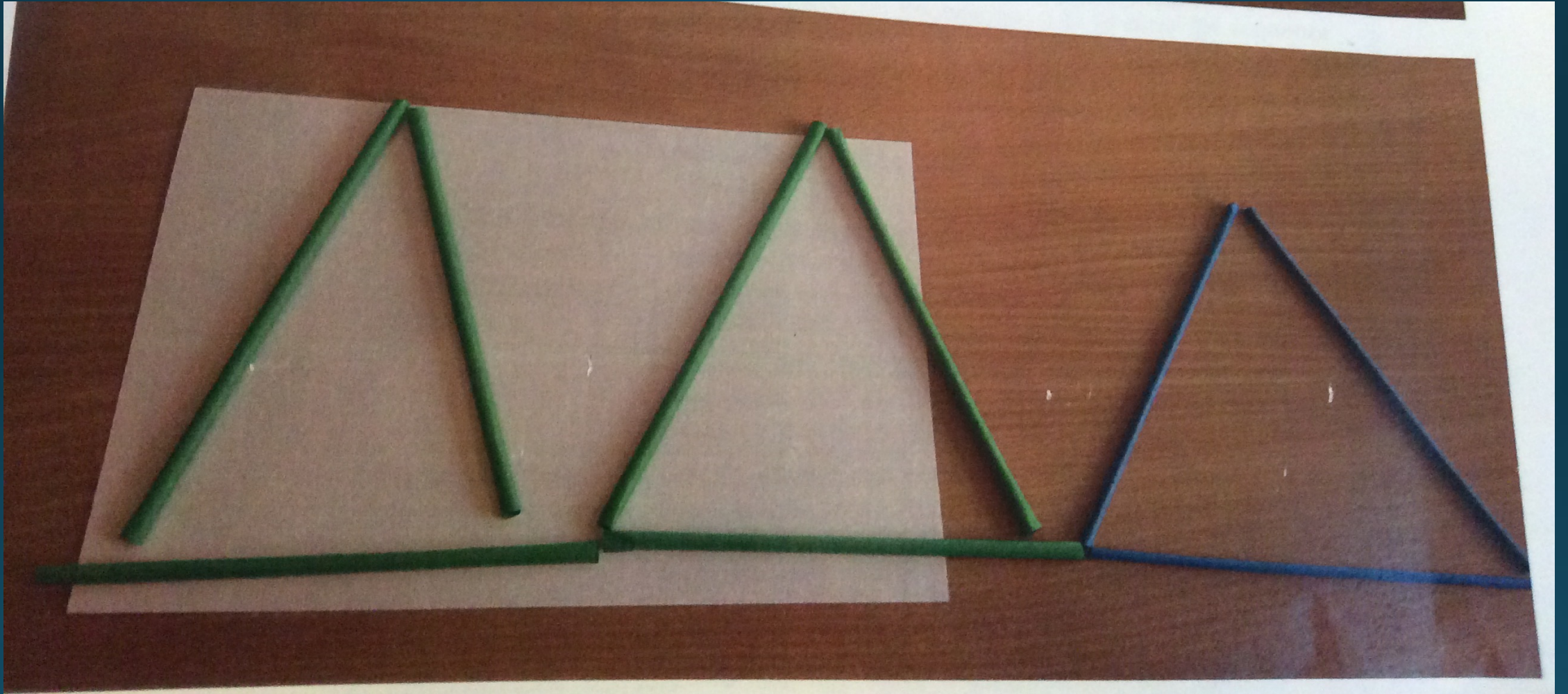
Children explore freely

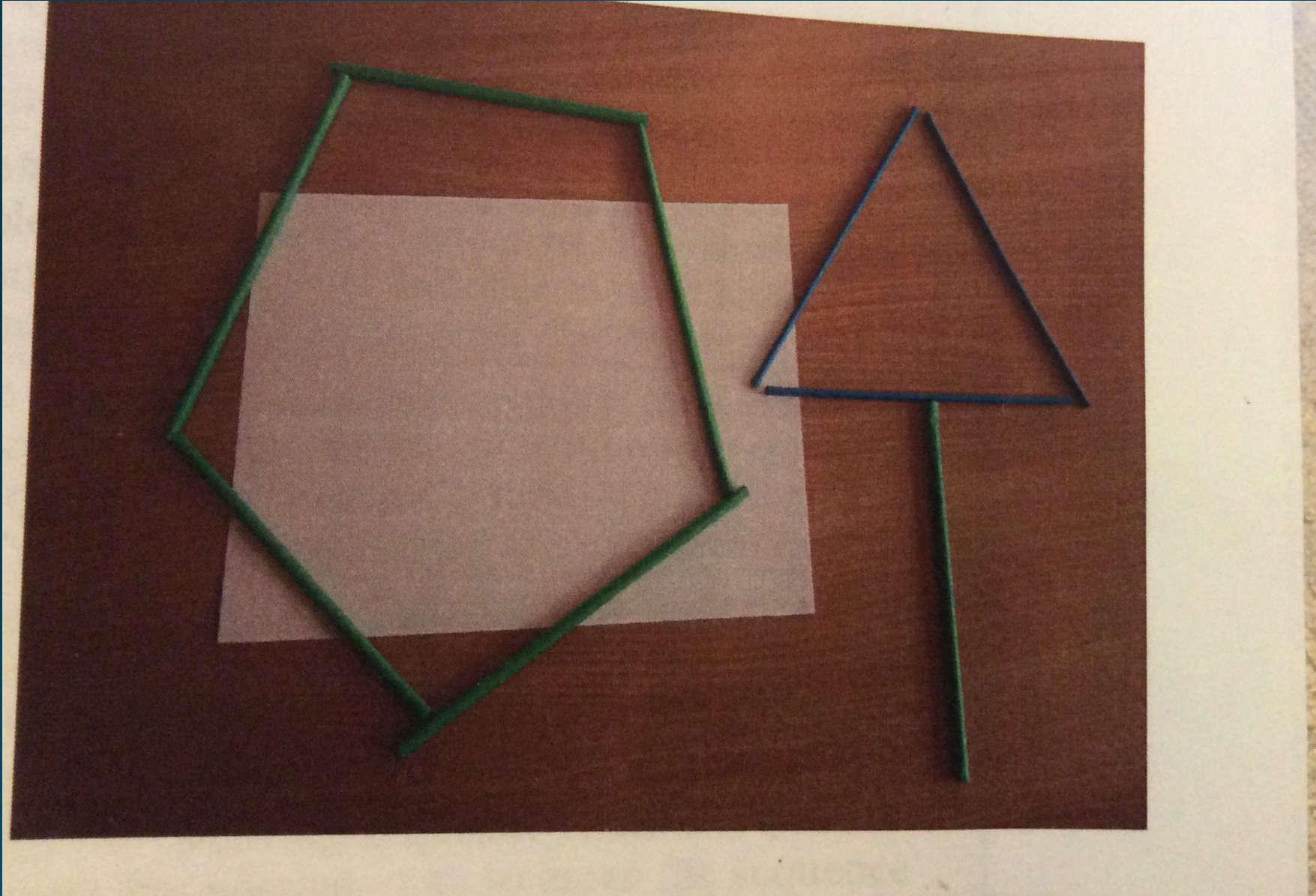
$$4+5=9$$
$$9-4=5$$



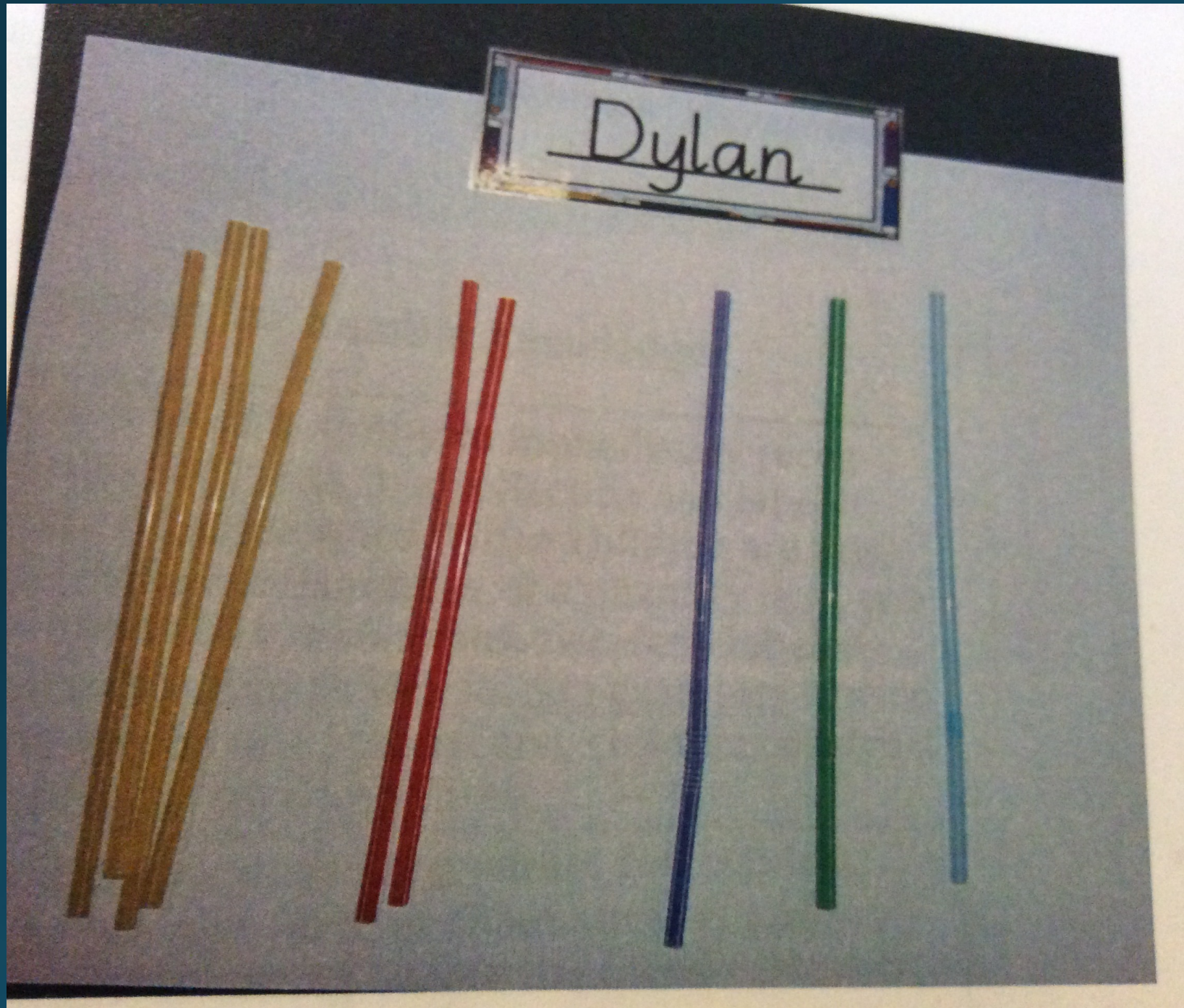
$$9 = 3 \times 3$$

$$3 + 3 + 3 = 9$$





$$5+4=9$$
$$9-5=4$$



$$4+2+3=9$$