

Using the SCERTS model of working with Oscar, I have devised this plan for him to help to improve his Maths during the Summer Term if we need to teach him at home.

Each section should be as practical as possible using hands-on activities and visuals.

Pattern:

30-minute activities, 1 per day, using computer and special notebook with targets and reward stickers

Clear plenary activities and revisit key aspects of learning fortnightly. Oscar-friendly probes.

Maths Skills for a 9-Year-Old — Oscar-Friendly Version

(Using farms, tractors and animals to make everything familiar.)

1. Understanding Numbers (Place Value)

Oscar should practise using numbers up to **4 digits** in ways he can *see* and *touch* mentally.

Oscar-style examples:

- "There are **3,452 sheep** on four farms.
 - The **3** = thousands of sheep
 - The **4** = hundreds
 - The **5** = tens
 - The **2** = ones"

- Ordering numbers like tractor horsepower: 75 HP < 120 HP < 300 HP.

Key Skills:

- Count in 1s, 10s, 100s, 1000s (e.g., 1 tractor... 11 tractors... 101 tractors).
 - Compare numbers ("Which herd is bigger?").
 - Round to nearest 10, 100, 1000 using farmyard examples.
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2. Addition & Subtraction (Column Method)

Oscar is likely to do well with **step-by-step**, aligned, predictable layouts.

Oscar-friendly tasks:

- Add the number of animals in two barns.
- Subtract animals sold at the market.
- Solve word problems with *one clear sentence* at a time.

Example:

"Barn A has 1,268 hens. Barn B has 843 hens.

How many hens altogether?"

3. Multiplication & Division (Up to 12×12)

Oscar may enjoy patterns and repeated structure — great for times tables.

Oscar-style activities:

- Counting **wheels on tractors** (4 wheels × number of tractors).
- Counting **animals in equal groups**:
 - "3 pens of 7 sheep each — how many sheep?"
- Understanding division as sharing hay bales equally.

Skills:

- All 12 × 12 times tables
 - Multiply 2-digit by 1-digit
 - Divide 2-digit by 1-digit with remainders
 - Factor pairs (Oscar can use farm groups!)
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4. Fractions & Decimals

Concrete examples help Oscar visualise amounts.

Oscar-style:

- “This hay bale is cut into **10 slices**. Taking **3 slices** is the same as **3/10** (0.3).”
- Use circular feed troughs to show quarters and halves.
- Add fractions with the same denominator:
“ $\frac{1}{4} + \frac{1}{4}$ of a bucket of feed = $\frac{1}{2}$ bucket.”

Key skills:

- Count in tenths
 - Understand decimals to one place (0.1, 0.2...)
 - Recognise equivalences ($\frac{1}{2} = 0.5$)
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5. Measurement

Oscar benefits from real-world, tangible measures.

Oscar-style ideas:

- Measure the **length of a tractor** in metres and cm.
- Convert:
 - 1 km = 1000 m (distance between fields)
 - 1 litre = 1000 ml (milk jug)
 - 1 kg = 1000 g (animal feed bags)
- Tell time using routines (milking time, feeding time).

Skills:

- Read analogue & digital clocks
 - Understand 24-hour time (e.g., 18:00 for evening feed)
 - Calculate perimeter (fencing a field)
 - Area by counting squares (grass plot grids)
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6. Geometry

Clear diagrams and real objects work best.

Oscar-friendly examples:

- Sort farm shapes:
 - Tractor wheel = **circle**
 - Barn door = **rectangle**
 - Field signs = **triangle**
 - Spot right, acute, obtuse angles in farm machinery.
 - Symmetry: cow patterns, leaf shapes.
 - Coordinates: plot animals on a simple grid field ("The cow is at (3,4)").
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7. Statistics

Charts can be turned into simple farm records.

Oscar-style tasks:

- Make a bar chart showing:
 - number of cows, sheep, pigs
 - Read a time graph showing milk production during the day.
 - Use tables like feeding schedules (Oscar tends to enjoy routine).
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Why This Works for Oscar

- **Predictability** — clear steps, consistent formats
 - **Concrete visuals** — farm examples he already understands
 - **Interests-based** — tractors, animals, machinery
 - **Calm presentation** — no clutter, no rapid switching
 - **Chunked information** — one skill per small section
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PART 1 — Farm-Themed Practice Questions for Oscar (Age 9)

Each section has 5 clear, calm questions.

1. Number & Place Value

1. On Farmer Tom's land there are **3,476 sheep**.
 - What digit is in the **hundreds** place?
 2. Order these herd sizes from smallest to largest:
4,210 cows, 3,998 cows, 4,005 cows.
 3. Round **2,867 chickens** to the nearest **hundred**.
 4. Count forward in 100s starting from **1,500**, four steps.
 5. Which is greater: a tractor that can pull **2,450 kg** or **2,540 kg**?
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2. Addition & Subtraction (Column Method)

1. Barn A has **1,268 pigs** and Barn B has **843 pigs**.
How many pigs altogether?
 2. A farmer had **3,200 hay bales**, but sold **765**.
How many are left?
 3. Two fields have **2,349 sheep** and **1,777 sheep**.
Total sheep?
 4. The grain store had **4,000 kg** of feed.
After feeding animals, **1,386 kg** remains.
How much was eaten?
 5. A tractor has driven **7,582 miles**.
After repairs it has driven **1,234 more**.
What is the new mileage?
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3. Multiplication & Division

1. Each tractor has **4 wheels**.
How many wheels do **7 tractors** have?
 2. There are **36 cows** split equally into **4 pens**.
How many cows per pen?
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3. A farmer packs **8 eggs** into each box.
How many eggs in **9 boxes**?
 4. A field has **56 sheep**. They are grouped into **7 equal groups**.
How many sheep in each group?
 5. A barn has **12 rows** of feed bags with **6 in each row**.
How many feed bags?
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4. Fractions & Decimals

1. A hay bale is cut into **10 slices**. Oscar takes **3 slices**.
What fraction is that?
 2. Write **0.4** as a fraction of a whole bale.
 3. A bucket is filled to $\frac{1}{2}$. If the farmer adds another $\frac{1}{4}$,
how full is it?
 4. Count up in tenths from **0.1** to **0.5**.
 5. Shade **$\frac{3}{10}$** of a row of carrots if there are 10 carrots in a row.
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5. Measurement

1. A tractor is **4 m** long. A trailer is **6 m** long.
What is their total length?
 2. Convert **3 km** into metres (distance between fields).
 3. A milk jug holds **500 ml**. How many jugs make **1 litre**?
 4. A field's perimeter is measured:
 - 30 m
 - 30 m
 - 20 m
 - 20 mWhat is the perimeter?
 5. Milking starts at **06:45** and ends at **07:20**.
How long does it take?
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6. Geometry

1. Name the shape of a tractor wheel.
 2. A barn door has **4 right angles**. What shape is it?
 3. Is the angle between tractor handlebars likely to be **acute, right, or obtuse**?
 4. Draw a symmetrical pattern like the black-and-white patches of a cow.
 5. On a grid, mark where the sheep is if it is at coordinate **(3,2)**.
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7. Statistics

1. A farmer counted his animals:
 - Sheep: 40
 - Cows: 20
 - Pigs: 15Draw a bar chart.
 2. On a time graph, milk production rises from **10 litres at 8am** to **25 litres at 9am**. What is the increase?
 3. Fill in a table showing how many eggs were collected on Mon/Tues/Wed:
12, 15, 18.
 4. Which day had the most eggs?
 5. How many eggs altogether?
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PART 2 — Oscar’s Calm, Structured Week-by-Week Learning Plan (10 Weeks)

Designed for:

- 10–20 minutes a day
 - predictable routine
 - repetition built in
 - farm examples every week
 - mastery before moving on
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WEEK 1 — Place Value Basics

- Read and build 3- & 4-digit numbers
 - “How many cows?” place-value games
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- Ordering farm numbers
 - Gentle rounding to nearest 10
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WEEK 2 — Place Value Mastery

- Rounding to 100 and 1,000
 - Counting in 10s/100s/1,000s
 - Comparing tractor weights, herd sizes
 - Mini-quizzes with picture cues
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WEEK 3 — Addition (Column Method)

- 3-digit addition
 - 4-digit addition
 - Farm inventory adding
 - Real-world problems (animals, feed, tools)
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WEEK 4 — Subtraction (Column Method)

- 3- and 4-digit subtraction
 - Step-by-step barn inventory changes
 - Practice with number lines
 - One small problem per day
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WEEK 5 — Multiplication (Times Tables & 2-digit × 1-digit)

- Tractor wheel counting
 - Animal groups
 - Array pictures on grids
 - Times table practice with predictable patterns
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WEEK 6 — Division (Sharing & Grouping)

- Simple sharing (animals into pens)
 - Division facts up to 12
 - Word problems with gentle structure
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- Remainders explained visually (“1 sheep left over”)
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WEEK 7 — Fractions

- Fractions of hay bales / buckets
 - Equivalent fractions visually
 - Same-demoninator addition
 - Tenths on a number line
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WEEK 8 — Decimals

- Tenths and hundredths as part of bales / milk jugs
 - Link fractions to decimals
 - Compare decimals using pictures
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WEEK 9 — Measurement

- Converting farm distances and weights
 - Time routines (milking, feeding)
 - Perimeter of fields
 - Area by counting squares
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WEEK 10 — Geometry & Statistics

- Angles in farm tools
 - Symmetry in animals/plants
 - Coordinates on a simple “farm map”
 - Charts showing animals, eggs, or milk production
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