EXPLAIN

AC9M2M01 · E3

Which Object Is Heavier?

Elaboration 3 · Comparing mass on balance scales

ELABORATION FOCUS

Using balance scales to compare the mass of objects with a suitable informal unit, and explaining why every unit must have the same mass.

LEARNING INTENTION **I can compare mass and say how much heavier.**

Balance it | **Same unit** | **Count it** | **Compare** | **Say why**

1
Balance the Scales

Step 1: put the object in one pan. Step 2: add units until the pans are level.

2
Count the Units

Step 3: count the units you used. Step 4: write the count next to the object.

3
Compare and Explain

Step 5: find how many units heavier. Step 6: say why the units must match.

MODEL · WEIGHING TWO OBJECTS IN BLOCKS

Each object is balanced against the same wooden blocks.

The apple is heavier · 9 – 6 = 3 blocks heavier

The apple is 3 blocks heavier than the pear, because 9 blocks is 3 more than 6.

TEACHER MODELLING ROUTINE **I do → We do → You do**

WATCH FOR

Mixing heavy and light units, so the counts no longer mean the same thing.

REMEMBER

Say it to students as: "Every unit must weigh the same."

MATERIALS

Balance scales, wooden blocks, marbles, counters, fruit, recording sheets.