

Year 3 Maths Toolkit Activities - Length

Activity 1 - Measuring and ordering lengths

Activity Approach

- Groupwork

Resources

- Activity Sheet 3.1
- Rods (straws) of different lengths and colour
- Rulers
- Whiteboard marker

Instructions

1. Lay out in front of you the rods of different lengths given in the pack.
2. Take it in turns to measure the length of each rod using the rulers.
3. Record the length of each rod on the grid found on Activity Sheet 3.1.
4. Re-write the lengths in order starting from the shortest to the longest rod.
5. Find the total lengths of various rods as shown on Activity Sheet 3.1.

Vocabulary

- length
- measure
- put in order
- shortest
- longest
- total

Year 3 Maths Toolkit Activities - Length

Activity 2 – Estimating, measuring and comparing lengths

Activity Approach

- Groupwork

Resources

- Activity Sheet 3.2
- Metre ruler
- Whiteboard marker

Instructions

1. Find the objects shown on Activity Sheet 3.2 in the classroom.
2. Take turns to guess the length of each object as indicated by the arrows.
3. Fill in the estimated lengths in the first column on the grid.
4. Measure the real lengths using the metre ruler.
5. Write down the lengths on Activity Sheet 3.2.
6. Find the difference between the estimated and the real lengths.
7. Write down the answers in the last column.

Vocabulary

- length
- guess /estimate
- measure
- difference

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Activity 3 – Metres or centimetres

Activity Approach

- Groupwork

Resources

- Set of photos of real objects
- Flashcard showing “shorter than 30 cm”
- Flashcard showing “longer than 30 cm”
- 30 cm ruler
- Whiteboard marker

Vocabulary

- centimetres (cm)
- metres (m)
- shorter than
- longer than
- sort

Instructions

1. Look at the objects shown on the photos.
2. Decide which unit to use to measure each object.
3. Write **m** or **cm** in the empty boxes found on each photo.
4. Choose only those photos showing objects which are shorter than 1 metre.
5. Sort again the pictures in two sets; *shorter than 30 cm* or *longer than 30 cm*.
6. Pupils can use the 30 cm ruler as an aid in order to complete the last activity.

Year 3 Maths Toolkit Activities - Length

Activity 4 – Measuring shapes

Activity Approach

- Groupwork

Resources

- Activity Sheet 3.4a
- Activity Sheet 3.4b
- Set of plastic shapes (rectangles and squares of various sizes)
- Rulers
- Whiteboard marker

Vocabulary

- rectangle
- square
- measure
- sides
- straight

Instructions

1. Lay out the plastic shapes given in the pack on your desk.
2. Measure the sides of each shape and fill in the details on Activity Sheet 3.4a.
3. Find Activity Sheet 3.4b and draw a straight line which is 15 cm long.
4. Place a number of shapes side by side along the line to make a total length of 15 cm.
5. Tick the shapes used on Activity Sheet 3.4b.
6. Repeat steps 3 to 5 this time along a line which is 27 cm long.

Year 3 Maths Toolkit Activities - Length

Activity 5 – Adding lengths

Activity Approach

- Groupwork

Resources

- Activity Sheet 3.5
- Ribbons of various colours and lengths
- 30 cm ruler
- Whiteboard marker

Vocabulary

- measure
- length
- measure
- sides
- straight

Instructions

1. Take turns to estimate and then measure the length of each ribbon.
2. Write down your answers on the table shown on Activity Sheet 3.5.
3. Sort the ribbons into pairs and write the colours of each pair in the second table on Activity Sheet 3.5.
4. Add the lengths of each pair of ribbons and write the total length in the table.