

MATHS ACTIVITY PACK SAMPLE PAGES

Maths Activity Packs are a bank of practical tasks that can be used for varied fluency, reasoning and problem-solving. The activities are designed to complement existing provision.

For each area of Maths, for each year group, there is a pack of activities for specific National Curriculum objectives. The activities can be used for whole class, small groups or paired work as indicated by the symbols at the start of each activity.

A list of resources is included for each activity; these are either easily found in most classrooms or can be found on the website.

To get the most out of these activities it is recommended that you select those activities that meet the needs of your class.

If you enjoy these samples and would like more, you will need to subscribe.

In this pack there is a sample page from the following activity packs:

- Y3 Place Value
- Y4 Measures
- Y5 Statistics
- Y6 Fractions

Y3 Place Value Activity Pack Sample Page

OBJECTIVES

Count from 0 in multiples of 4, 8, 50 and 100

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Activity 1

You will need: NOTHING!

1. Children start the activity standing - in the classroom or in a hall or outside.
2. The teacher states the multiple to use for counting and the start number and which child starts.
3. The first child says the first multiple, the second child the next multiple and so on.
4. Children who make a mistake sit down, the remainder carry on counting until there are no children left standing.

Variations: set a timer to see how long it takes until there is a mistake.
at random times say 'Switch' - the direction changes Eg first child; second child, third child 'SWITCH'; second child ; first child etc.

Activity 2

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You will need: NOTHING!

1. Children start the activity standing - in the classroom or in a hall or outside.
2. The teacher states the multiple to use for counting and which child starts.
3. The children count starting from 1 but when they reach a number which is a multiple of the chosen multiple they do not say the number, instead they say FIZZ. Extend to 2 multiples and the children say BUZZ for the second multiple. If the number is a multiple of both they say FIZZBUZZ.
4. Children who make a mistake sit down, the remainder carry on counting until there are no children left standing.

For example: the chosen multiple is 4.

Child 1 - 1; child 2 - 2; child 3 - 3; child 4 - FIZZ; child 5 - 5; child 6 - 6; child 7 - 7 ; child 8 - 8 - child 8 should have said FIZZ and must sit down.

Variations: as Activity 1

Y4 Measures Activity Pack Sample Page

OBJECTIVE

Convert between different units of measure

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Activity 4

You will need: random length digit cards - different units of measure

1. Each child selects 2 digit cards, each with a different unit of measure Eg mm and cm; cm and m; m and km
2. They convert one of the numbers to the same unit of measurement as the other card.
3. Add and then subtract the 2 numbers.
4. Swap calculations with their partner to check each other's work.

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Activity 5

You will need: random length digit cards - different units of measure

Random simple fraction digit cards

1. Select a unit of measure card and a fraction card.
2. Find the fractional amount of the measurement.
3. Swap calculations with their partner to check each other's work.

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Activity 6

You will need: pre-cut 3 lengths of string/ ribbon: 1 = 31cm; 1 = 33cm and 1 = 37cm

A ball/roll of ribbon/string or similar

scissors

1. Tell the children that they need to cut a piece of ribbon/string which is 39cm long exactly.
2. There is no tape measure but they can use the 3 pre-cut pieces to help them.
3. Ask the children to solve the problem then explain how they did it.
4. Next, ask the children to write a similar problem with a model answer for another pair to solve.

Y5 Statistics Activity Pack Sample Page

OBJECTIVES

- Solve comparison, sum and difference problems using information presented in a line graph

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Activity 1

You will need: a selection of unlabelled line graphs [see Line Graph Pack 1]

1. Give each pair a line graph.
2. Ask them to use it to tell a story.
3. Ask for title and labels for the axes.
4. Children share their stories with the class or their group.

Activity 2

You will need: a table of data to construct a line graph

Graph paper with different sized squares

1. Plot the same data on different types of graph paper.
2. What impact does the graph paper have on the line graph?

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Activity 3

You will need: a selection of incorrectly prepared line graphs [see Line Graph Pack 2]

Children find the errors in the construction of the graphs and explain how they should be corrected

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Activity 4

You will need: a selection of line graphs [see Line Graph Pack 3]

1. Ask the children to write comparison, sum and difference problems using their graph. Ensure that they write model answers for their questions.
2. Swap their graph and problems with another pair to solve.

Opportunities for the construction and interpretation of line graphs in other subjects should be included throughout the year.

Geography - fieldwork

Science - investigations

Y6 Fractions Activity Pack Sample Page

OBJECTIVES

- Compare and order fractions, including fractions > 1

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Activity 1

You will need: proper fraction cards

A large space Eg hall or playground or field

1. Give each child a proper fraction card and tell them not to share it with the other children. [children with adult support can share it with the relevant adult]
2. Ask the children to spread out. Then say various criteria [see suggestions below] and ask them to stand in a specified location. For example you may say all those with a fraction smaller than a half stand to the right and the rest to the left.
3. After allowing sufficient time for the children to move, ask them to get into groups of 2 or 3 and check each other's cards and that they are in the right place.
4. Ask random children to explain how they know that they are in the right place.

Suggested Criteria:

- Fractions between 2 given fractions Eg fractions between $\frac{1}{4}$ and $\frac{3}{4}$
- Fractions which are equivalent to $\frac{1}{4}$

Variation: include some Mixed Number cards

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Activity 2

You will need: proper fraction cards

A large space Eg hall or playground or field

1. Split the children into 4 groups, ask them to arrange themselves in ascending order.
2. Then merge two groups and ask them to order themselves in their new group.
3. Merge the final 2 groups. Once all the children are ordered ask the children to explain why they are in their position.

Variation: ask the children to sort themselves into order without speaking

make sure you ask them to do both ascending and descending order

include some Mixed Number cards