The National Numeracy *Strategy in* Cumbria

Yr 5 Assessment Cards

These cards have been put together to help teachers decide whether or not the children in their class have met the Key Objectives they are working towards.

They are based on the supplements of examples from the NNS Framework and if a child can complete the tasks and questions successfully, they have met the objective at the top of the card. The Key Objective record sheets provided by the NNS can be used to keep a record of which children have met which objectives. We have also produced full Key Stage record sheets so cohorts of children can be tracked right the way through school. These can be found in our area of the CLEO website.

Suggestions on how to use the cards.

Before using the cards it might be an idea to print the different year groups off on different coloured paper and laminate them so they can be used again and again. The cards are A5 size but have been put side by side for ease of printing. (If you cannot see the cards side by side, switch to “print layout” in the “View” menu at the top of the screen.)

The cards are designed to be used in the main part of a lesson based on a Key Objective and can be given to individuals or groups as a quick 5 minute activity. The results will build up an ongoing picture to help with forward planning.

Yr 5 Key Objective Assessment

Multiply and divide any positive integer up to 10 000 by 10 or 100 and understand the effect

Answer the following questions in your maths book.

- What is 600 times 10?
- What is 600 divided by 10?
- What is 600 times 100?
- What is 600 divided by 100?
- What is one tenth of 800?
- What is one tenth of 6?
- What is one hundredth of 6000?
- What is one hundredth of 60?

- How many times larger is 2600 than 26?
- How many £10 notes are there in £120?
- How many 10p coins are there in £120?
- Tins of dog food at 42p each are put in packs of 10. Ten packs are put in a box.
  How much would 10 boxes of dog food cost?

Yr 5 Key Objective Assessment

Order a given set of positive and negative numbers

Answer the following questions in your maths book.

- Put these numbers in order, least first:
  -2, -8, 3, -1, 2

- Write a whole number on each blank card so that the six numbers are in order:

-9		-5		-1	

- Write a whole number on each blank card so that the six numbers are in order:

-28		-13		-5	

Yr 5 Key Objective Assessment

Use decimal notation for tenths and hundredths

Answer the following questions in your maths book.

- What does the digit 6 in 3.64 represent?
  What does the 4 represent?
- What is the 5 worth in the number 7.45?
  What is the 4 worth?
- Write the decimal fraction equivalent to:
  - two tenths and five hundredths
  - twenty-nine hundredths
  - fifteen and nine hundredths

Yr 5 Key Objective Assessment

Round a number with one or two decimal places to the nearest integer

Answer the following questions in your maths book.

- Round these to the nearest whole number:
  9.7 25.6 148.3 80.5
- Round these lengths to the nearest metre:
  1.5m 6.7m 4.1m 8.9m
- Round these costs to the nearest £:
  £4.27 £12.60 £14.05 £6.50

Yr 5 Key Objective Assessment

Relate fractions to division and to their decimal representations

Answer the following questions in your maths book.

- $^{1}/_{3}$ of 15 = 15 ÷ ☐
- $^{3}/_{4}$ = 3 ÷ ☐
- $^{12}/_{3}$ = 12 ÷ ☐
- Write these fractions as decimals:
  $^{7}/_{100}$ $^{635}/_{100}$ $^{37}/_{10}$
- Which of these decimals is equal to $^{19}/_{100}$?
  1.9 10.19 0.19 19.1

Yr 5 Key Objective Assessment

Calculate mentally a difference such as 8006 – 2993

Use a mental strategy to answer the following questions in your maths book. (do not set them out vertically)

- 8006 – 2993 =
- 4005 – 1997 =
- 6008 – 3995 =
- 5005 – 4995 =

Yr 5 Key Objective Assessment

Carry out column addition and subtraction of positive integers less than 10 000

Copy and complete the following questions in your maths book.

$$\begin{array}{r} 587 \\ +\ \underline{475} \\ \underline{} \end{array} \qquad \begin{array}{r} 3587 \\ +\ \underline{675} \\ \underline{} \end{array}$$

$$\begin{array}{r} 954 \\ -\underline{567} \\ \underline{} \end{array} \qquad \begin{array}{r} 833 \\ -\underline{456} \\ \underline{} \end{array}$$

Yr 5 Key Objective Assessment

Know by heart all multiplication facts up to 10 x 10

Answer the following questions as quickly as you can in your maths book.

- Nine sevens
- How many eights in 48?
- 6 times 7
- 5 multiplied by 9
- Multiply 9 by 6
- 7 multiplied by 0
- Eight threes
- How many sevens in 56?
- 9 times 8
- multiply 10 by 6

Yr 5 Key Objective Assessment

Carry out short multiplication and division of a 3 digit by a single digit integer

Copy and complete the following questions in your maths book.

$$\begin{array}{r} 346 \\ \times \quad 9 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 257 \\ \times \quad 7 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 426 \\ \times \quad 8 \\ \hline \\ \hline \end{array}$$

6) 196   7) 376   4) 531

Yr 5 Key Objective Assessment

Carry out long multiplication of a 2 digit by a 2 digit integer

Copy and complete the following questions in your maths book.

$$\begin{array}{r} 72 \\ \times \quad 38 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 56 \\ \times \quad 26 \\ \hline \\ \hline \end{array}$$

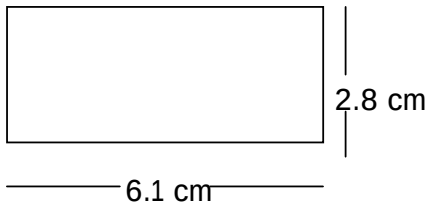
$$\begin{array}{r} 68 \\ \times \quad 43 \\ \hline \\ \hline \end{array}$$

Yr 5 Key Objective Assessment

Understand area measured in square centimetres (cm^2); understand and use the formula in words 'length x breadth' for the area of a rectangle

Answer the following questions in your maths book.

- What is the approximate area of this rectangle?



- Would you expect the area of a paperback book to be $200cm^2$, $600cm^2$ or $6000cm^2$?

- Would you expect the area of a playing card to be $5cm^2$, $50cm^2$ or $100cm^2$?

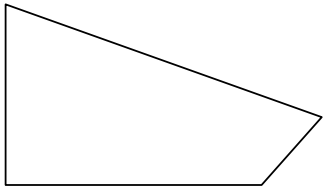
Yr 5 Key Objective Assessment

Recognise parallel and perpendicular lines, and properties of rectangles

Copy these shapes into your maths book and answer the questions.

- Colour the parallel lines red

- Colour the perpendicular lines blue



- Write down all the properties of a rectangle you can think of

Use all four operations to solve simple word problems involving numbers and quantities, including time, explaining methods and reasoning

Answer the following questions in your maths book.

- I think of a number, then divide it by 15. The answer is 20.
  What was my number?

- A box holds 12 eggs.
  How many eggs are there in 9 boxes?
  How many boxes are needed to hold 192 eggs?

- I have read 134 of the 512 pages of my book.
  How many more pages must I read to reach the middle?

- There are 8 shelves of books.
  6 shelves hold 25 books each.
  2 shelves have 35 books each.
  How many books altogether?

Yr 5 Key Objective Assessment

Cumbria Numeracy Team