

Year 6 - Day 26

Good morning year 6 team!

HAPPY BIRTHDAY MATTHEW!

We hope you have a lovely birthday with your family.

Let's start the day with a well-known logic challenge. See if you can solve it! You could use items to represent the characters, the boat and the river to help you solve it:

Problem solving activity

You are a farmer taking a fox, a chicken and a sack of grain to market and you come across a river. The only way across the river is by a small boat, which can only hold at most you (the farmer) and ONE of the three items. Left unsupervised, the chicken will eat the grain or the fox will eat the chicken. However, the fox won't try to eat the grain, nor will the fox or the chicken wander off.

What's the quickest way to get everything across the river?



Have a great day team!

Mr Anderson, Mrs Kerrison and Ms Rozental

Year 6 - Day 26

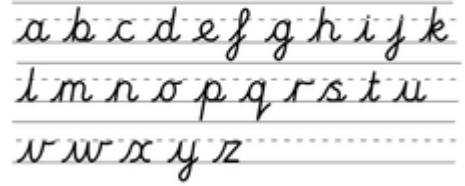
Write the long date and 'Day 26'

Handwriting :

The wizard quickly jinxed the gnomes
before they vaporized.

A pangram is a sentence that uses all the letters of the alphabet at least once. Using your line guide, copy this pangram in your neatest writing.

Letter Formation



a b c d e f g h i j k
l m n o p q r s t u
v w x y z

Handwriting Top Tips:

- Tall letters and capitals go all the way to the top of the line gap
- All shorter letters should be the same height as each other
- Try to make all upwards strokes (lines) parallel

English Task : Doors

Today, we are going to practice our descriptive writing.

Follow the link below, to the Talk 4 Writing booklet on the Summerlea Website.

You will then need to scroll down to Activity 8, page 12 and 13: 'Through the eyes of a character.'

<https://www.summerlea.w-sussex.sch.uk/attachments/download.asp?file=6900&type=pdf>

Arithmetic: Copy or stick these questions into your exercise books.
The numbers of the sections may not go in order! Don't worry about this.
The answers are at the bottom of this document.

Section 1

Order the following numbers from smallest to largest:

49 944

44 949

49 494

44 499

49 449

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

smallest

largest

Section 4

Simplify the following fractions:

$$\frac{2}{6} = \square$$

$$\frac{4}{8} = \square$$

Section 5

Calculate:

$$0.3 \times 10 = \square$$

$$0.6 \times 10 = \square$$

$$0.5 \times 10 = \square$$

Section 6

Convert the following:

$$1 \text{ kg} = \text{_____g}$$

$$\text{_____kg} = 2000\text{g}$$

TTRockstars: Log in and complete at least one 'Garage' and one 'Studio' task.

My Maths : Log in and complete today's lesson and homework task.



Always, Sometimes, Never

Try out each of the following ideas. Do you think they are ALWAYS true, SOMETIMES true or NEVER true? Can you find examples that prove what you think?

1. All prime numbers are odd. (you may need to research prime numbers if you can't remember what they are!)
2. Multiplying by any number always makes the result larger.
3. Adding something to a number always makes it larger.
4. Subtracting something from a number always makes it smaller.
5. Dividing a number by something always makes it smaller.

CHALLENGE:

If the digits of any number add up to a multiple of 3, then the number you started with is in the 3 times table.

For example, take the number...

$$213$$

$$2+1+3=6$$

6 is in the 3 times table.

Does this mean that 213 is also in the 3 times table?

Does this always work? Sometimes work? Or never work?

Science: Light experiment

DO TRY THIS AT HOME
The Light Collection
INTERNATIONAL YEAR OF LIGHT 2015

What you need: • A clear plastic bottle • A torch
• Kitchen foil • Sticky tape • A dark room with a sink

Thanks for pouring me a drink Milo but let me show you how to pour light!

Wrap the bottle in kitchen foil, leaving the bottom bare.

Fill the bottle with water, ...

... switch on your torch ...

'click' ...and turn off the lights.

Shine the torch through the bottom of the bottle and start pouring the water into the sink. Keep the torch close to the bottle at all times.

Almost all the light from the torch is reflected every time it hits the edge of the stream of water, so the light follows the path of the water and you see a spot of light where the water hits the sink.

www.physics.org search term: total internal reflection

Vic Le Billon

Maths Answers

Section 1

Order the following numbers from smallest to largest:

494 944 494 494 449 494 449 944 494 499

| | | | | |
|---------|---------|---------|---------|---------|
| 449 494 | 449 944 | 494 494 | 494 499 | 494 944 |
|---------|---------|---------|---------|---------|

smallest largest

Section 4

Simplify the following fractions:

$$\frac{3}{12} = \boxed{\frac{1}{3}}$$

$$\frac{6}{12} = \boxed{\frac{1}{2}}$$

Section 5

Calculate:

$$0.2 \times 100 = \boxed{20}$$

$$0.8 \times 100 = \boxed{80}$$

$$0.3 \times 100 = \boxed{30}$$

Section 6

Convert the following:

$$0.4\text{kg} = 400\text{g}$$

$$1.7\text{kg} = 1700\text{g}$$

Fox, Chicken and Grain Solution:

The man and the chicken cross the river, (the fox and corn are safe together), he leaves the chicken on the other side and goes back across.

The man then takes the fox across the river, and since he can't leave the fox and chicken together, he brings the chicken back.

Again, since the chicken and corn can't be left together, he leaves the chicken and he takes the corn across and leaves it with the fox.

He then returns to pick up the chicken and heads across the river one last time.