Inkleaf LEARNING

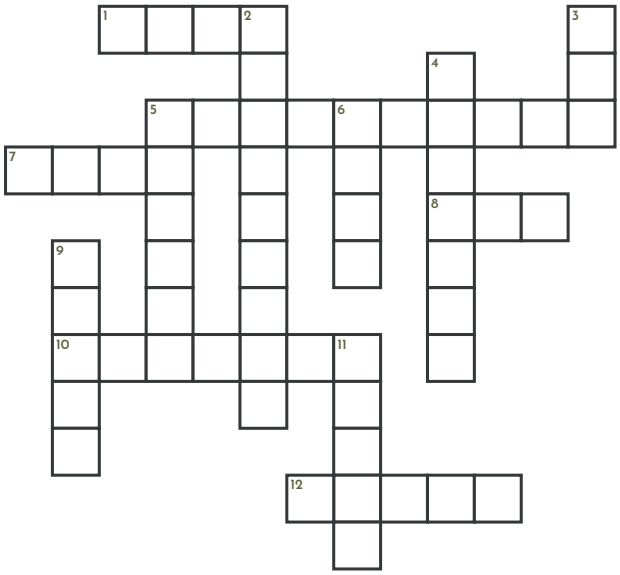
Name _____

Bonfire Night Challenge

Year 7

1 Crossword

Some clues are straight definitions; some hide a little trick (a hidden word, a sound-alike, two meanings, or a word built from parts). The short answers will help with the long ones.



Across

1 James I was one; so is a chess piece (4)
5 A secret plan made by a group (10)
7 Join together, or the part of a firework you light (4)
8 A tree, or what is left after the bonfire (3)
10 Wooden casks the gunpowder was hidden in (7)
12 A test, or what Guy Fawkes was put on (5)

Down

2 Weapon plus face dust makes an explosive mix (9)
3 Fawkes, or any fellow (3)
4 The crime of plotting against your king or country (7)
5 Room under a building; sounds like someone who sells (6)
6 A secret plan, or a small patch of land (4)
9 A glowing coal hidden in 'November' (5)
11 A tiny flash hiding in 'this parking' (5)

2 Keyword Cipher

Step 1. Build the code alphabet. Write the keyword **FAWKES** under A, B, C, D, E, F. Then carry on with the rest of the alphabet in order, skipping any letter already used (so G gets B, H gets C, and so on).

Plain	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
Code																										

Step 2. Decode this message. Find each code letter in your Code row: the Plain letter above it is the real one. Write it in the box under the code letter.

A M L S D P E Q V E P E I D R

A E W F T Q E R C E H D L B V F Q

Q F S E

Step 3. Now use your code alphabet to write a short secret message of your own for a friend to crack.

Inkleaf LEARNING

Name _____

Bonfire Night Challenge

Year 7

3 Logic Puzzle

Four friends arrived at a fireworks display at 6.00, 6.15, 6.30 and 6.45, and each has a different favourite firework. Use the clues and the grid (a tick for yes, a cross for no) to work out who arrived when, and who likes what.

1. The rocket fan arrived exactly half an hour before the Catherine wheel fan.
2. Sam arrived 15 minutes after the rocket fan.
3. Priya arrived later than Nia, and Nia arrived later than Oscar.
4. Nia does not like rockets, and nor does Priya.
5. The sparkler fan arrived before the fountain fan.

	rocket	sparkler	Catherine wheel	fountain	6.00	6.15	6.30	6.45
Nia								
Oscar								
Priya								
Sam								

	Firework	Time
Nia		
Oscar		
Priya		
Sam		

4 Fact Or Fiction?

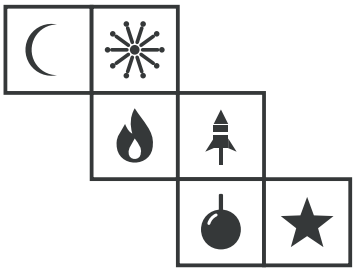
Tick true or false for each statement.

How many years before 2026 was 1605? ☐

		True	False
1	The Gunpowder Plot took place in 1605.	☐	☐
2	The plotters planned to blow up the Houses of Parliament and King James I.	☐	☐
3	Guy Fawkes was the leader of the plot.	☐	☐
4	Guy Fawkes was caught in a cellar under the House of Lords on the night of 4th to 5th November.	☐	☐
5	People lit bonfires to celebrate that the King had survived.	☐	☐
6	Guy Fawkes escaped and was never put on trial.	☐	☐

5 Fold The Cube

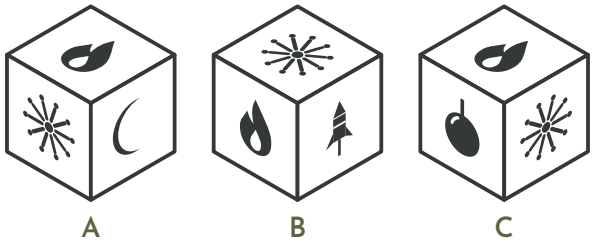
This net folds into a cube. Two of the cubes on the right could be made from the net. Which one could NOT? (Pictures may be turned round on a face.)



☾ is opposite ☐

✳ is opposite ☐

🔥 is opposite ☐



A B C

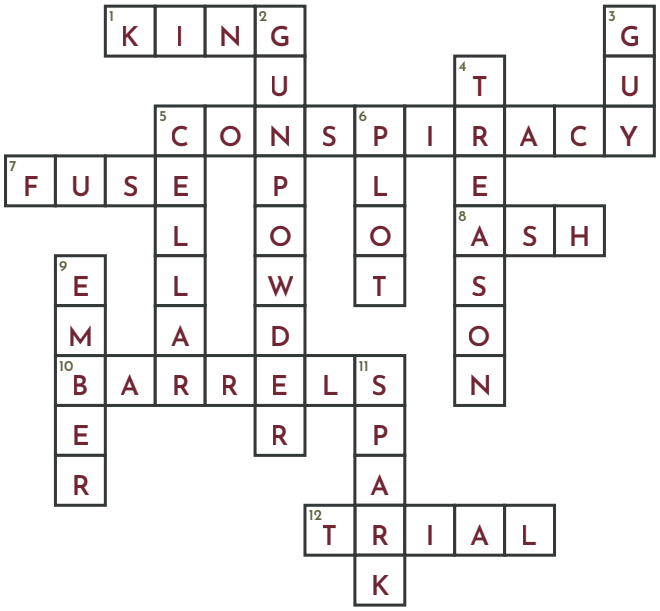
The cube that could NOT be made is ☐

Inkleaf LEARNING

Answers

For the grown-up

1 Crossword



Tricks: SPARK is hidden in "thiS PARKing", EMBER in "novEMBER"; CELLAR sounds like "seller"; GUN + POWDER; PLOT, KING, GUY, FUSE, ASH and TRIAL have two meanings.

2 Keyword Cipher

Code row: FAWKESBCDGHIJLMNOPQRTUVXYZ

Message: **BONFIRES WERE LIT BECAUSE THE KING WAS SAFE**

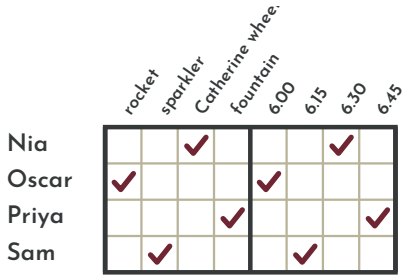
3 Logic Puzzle

Oscar: 6.00, rocket

Nia: 6.30, Catherine wheel

Sam: 6.15, sparkler

Priya: 6.45, fountain

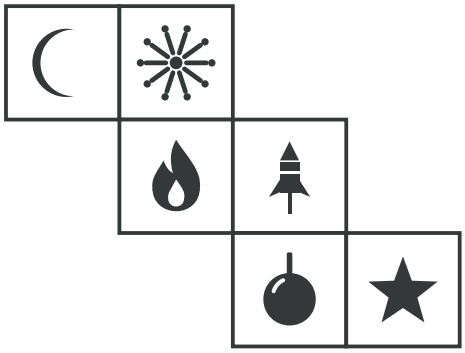


Clues 1 and 2 put the rocket fan first and Sam second, so the Catherine wheel fan came third. Clue 3 then gives the order Oscar, Nia, Priya, and clue 5 sorts the sparkler and the fountain.

5 Fold The Cube

The moon is opposite the rocket, the firework burst is opposite the toffee apple, and the flame is opposite the star.

Cube C cannot be made: it shows the toffee apple and the firework burst side by side, but they are opposite each other on the cube. Cubes A and B can both be made.



4 Fact Or Fiction?

1. **True.** It was in 1605.
2. **True.** They hid barrels of gunpowder under the House of Lords.
3. **False.** He was one of a group of plotters, the one left guarding the gunpowder. The group was led by Robert Catesby.
4. **True.** He was caught there with the gunpowder.
5. **True.** That is where our bonfires and fireworks on 5th November come from.
6. **False.** He was arrested and put on trial.

Years before 2026: 2026 minus 1605 is **421** years.

How to help

Let them struggle a little before offering a hint; these are meant to stretch. Good hints: for the crossword, "which short words cross that long one?"; for the cipher, "what does the keyword do to the first six letters?"; for the logic puzzle, "which two clues both mention the rocket fan?"; for the cube, copy the net onto paper, cut it out and fold it to check.