Inkleaf LEARNING

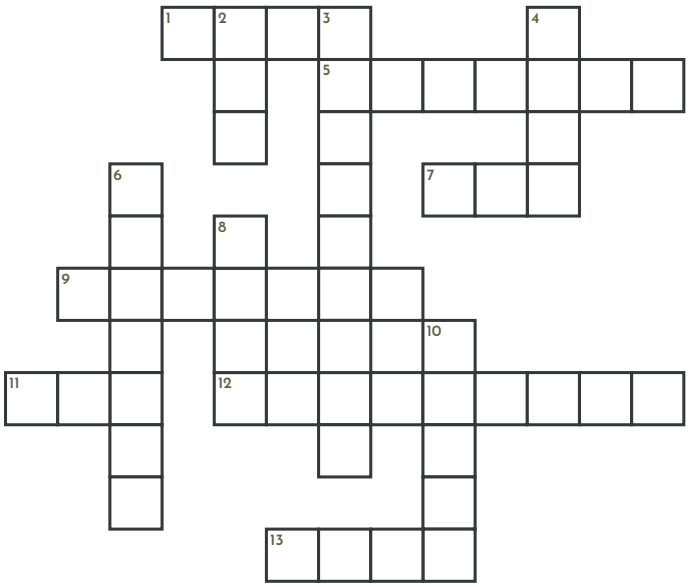
Name _____

Halloween 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 It is full about once a month (4)
5 Suggesting that something bad is about to happen (7)
7 A spider's trap, or the internet for short (3)
9 Disturbing, because it dwells on death (7)
11 Flying mammal, or something you hit a ball with (3)
12 Serious, plus a unit of length, gives a resting place (9)
13 Dracula's cloak, or a headland (4)

Down

2 Night bird hiding in 'bowling' (3)
3 Active at night, like an owl or a bat (9)
4 A grave, hidden in 'atom bomb' (4)
6 A ghost: the one in the Opera (7)
8 A vampire's long, sharp tooth (4)
10 Strange and unsettling; sounds like a Great Lake (5)

2 Keyword Cipher

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

R C T F T Y D Q C D S S T K D K Q D S T

R C T B P G K S A G R C T P O I L O F

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

Inkleaf LEARNING

Name _____

Halloween Challenge

Year 7

3 Logic Puzzle

Four friends went trick-or-treating, each in a different costume, and each came home with a different number of sweets (8, 12, 15 or 20). Use the clues and the grid (a tick for yes, a cross for no) to work out who was who.

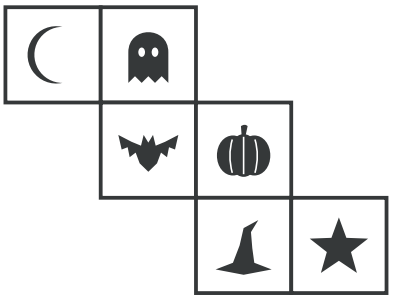
1. Ben collected 15 sweets.
2. The ghost collected the fewest sweets.
3. Zara was not the ghost, and she collected more sweets than the witch.
4. Kit was the vampire.
5. Ava collected fewer sweets than the skeleton.
6. The vampire collected 12 sweets.

	vampire	witch	ghost	skeleton	8	12	15	20
Ava								
Ben								
Kit								
Zara								

	Costume	Sweets
Ava		
Ben		
Kit		
Zara		

4 Fold The Cube

This net folds into a cube.

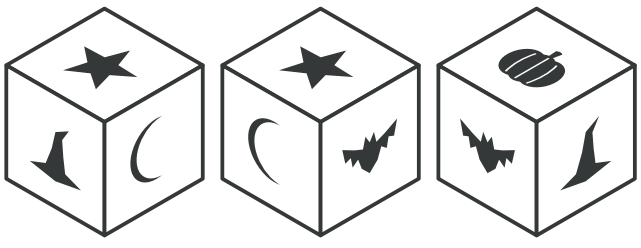


is opposite ☾ ☐

is opposite 👻 ☐

is opposite 🦇 ☐

Two of these cubes could be made from the net. Which one could NOT? (Pictures may be turned round on a face.)



A B C ☐

5 Picture Sudoku

Each row, column and 2 by 3 box holds all six symbols once. This one needs real logic, not guessing. Write the letters.



☾ ★ 🎃 🦇 👻 🧙

M S P B G H

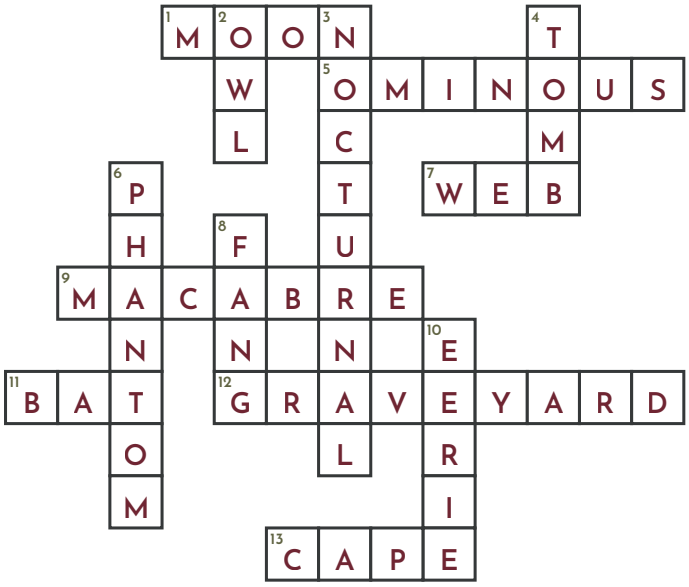


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Answers

For the grown-up

1 Crossword



Tricks: OWL is hidden in bOWLing, TOMB in aTOM Bomb; EERIE sounds like Lake Erie; GRAVE (serious) + YARD; BAT, WEB and CAPE have two meanings.

2 Keyword Cipher

Code row: GHOSTABCDEFIJKLMNPQRUVWXYZ

Message: THE KEY IS HIDDEN INSIDE THE GRANDFATHER CLOCK

3 Logic Puzzle

Ava: ghost, 8 sweets

Ben: witch, 15 sweets

Kit: vampire, 12 sweets

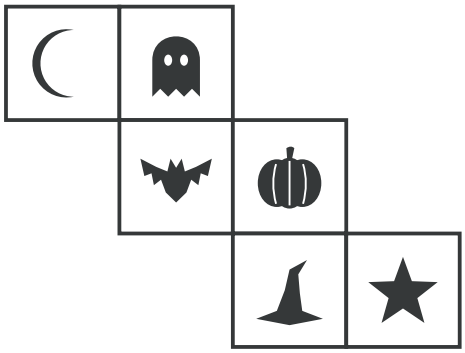
Zara: skeleton, 20 sweets

Start with clues 1, 4 and 6: Ben has 15, Kit is the vampire with 12.

4 Fold The Cube

The moon is opposite the pumpkin, the ghost is opposite the hat, and the bat is opposite the star.

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



5 Picture Sudoku

Shaded squares were the gaps.



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 five letters?"; for the logic puzzle, "which clues give you a certain fact on their own?"; for the cube, copy the net onto paper, cut it out and fold it to check. The sudoku can be solved without guessing: look for a row, column or box with only one or two gaps.