JAG01 Unit 9 Past Life and Fossils II

Task 1 Model presentation

A) Complete the transcript of the presentation using these words.

amazingly	discovered	forests	fossils	has been	have been
has eaten	hopefully	was created	was made		
Today, I wan	t to tell you abou	it an amazing dis	scovery that (1)	not so long ago.
Take a look a	t this picture. Th	is is Hang Son I	Doong – the wo	orld's largest c	ave. I first heard
about this pla	ce when I saw ar	n unbelievable v	ideo of it on Y	ouTube. Hang	Son Doong is in
Vietnam. Its	name means 'Mo	ountain River Ca	ve'. How big i	s it? Well, it's	more than
5 kilometres	long, 200 metres	high and 150 m	etres wide. In	some places th	e cave is big
enough to fit	a jumbo jet insid	le! The cave (2)	• • • • • • • • • • • • • • • • • • • •	by a river which	ch (3)
away the lime	estone of the Ani	namire Mountair	ns. How was it	(4)	? Well, (5)
, not	oody knew about	this place until a	a local man for	and it by accid	ent in 1991. And it
was only in 2	009 that the cave	e became interna	tionally know	n after a group	of British
scientists wer	nt there to study	it. Inside the cav	e, entire (6)	s	tretch out across
the cave floor	r, and 300-millio	n-year-old (7)	ha	ve been found	inside. The cave is
so large it eve	en has its own wo	eather system. V	ery few people	e (8)	inside the cave
although it (9) oj	en to the public	since 2013. (1	0)	, I'll get a chance
to go there m	yself one day. It	looks like a truly	y incredible pla	ace.	

- B) Divide the presentation into paragraphs and describe their function.
- C) Review the text in terms of presentation skills. Do you think it would make a good presentation? Why?

(adapted from Bohlke, D. Keynote, National Geographic Learning, 2017.)

Task 2 A short talk

Work in pairs. Each of you will receive different material. Study the information and prepare a short presentation about it. Tell your partner. Then swap. Give each other feedback.

Task 3 Numbers

a) What do you have to calculate in geology?

b)) Give	an	exam	ple	of a	a	numbe	r:

even	, odd	, prime	, decimal	

What does it mean to round a number up/down?

c) Read these numbers or fractions:

0.2	2.053
0.05	1800
2479	1 415 605
549492008	2 418 962 573
2,053	1/3; 3/4; 2/5; 14/15

c) Listening: How big is a billion?

 $(https://www.youtube.com/watch?annotation_id=annotation_215752\&feature=iv\&src_vid=SbZCECvoaTA\&v=C-52AI_ojyQ)$

Listen and watch, answer the questions below:

People understand "a billion" differently - what does it depend on?

What systems do scientists use?

What is the short system based on?

When did Britain officially adopt the short system? Why did they adopt it?

What is the long system based on?

Which system seems to make more sense?

What is the continental word for 1 000 000 000? What do they call it in the financial world? What system do they have in Canada?

What is a myriad?

d) Simple arithmetics

Look at the way we say these examples:

4 + 4 = 8	four and (plus) four is / equals eight
9 - 2 = 7	nine minus two is seven
5 × 5 = 25	five times five is twenty-five or five multiplied by five is twenty-five
$8 \div 4 = 2$	eight divided by four is two

Here are some more arithmetical symbols. Notice how to say them.

2^2	two squared	$\sqrt{}$	square root of
- 2 ³	minus (negative) two cubed	3√	cube root of
2^{4}	two to the power of four	π	pi
$\log_{10} 7$	log of seven to the base ten	` /	x equals three, bracket a plus b, bracket

Now solve these maths problems and read them out.

- a) $125 69 = \dots$
- d) $\sqrt{16} = ...$

g) $\sqrt[3]{27} = ...$

- b) $9 \times 5 = ...$
- e) x=4(2+7)

h) $2^4 = ...$

- c) $30 \div 6 = ...$
- f) $9^2 = ...$

i) $\pi = \dots$

Look at this example:

Add six to seven. Now multiply by four. Subtract four. Divide by twelve. What is the answer?

- 6 + 7 = 13
- $13 \times 4 = 52$
- $52 4 = 48 \quad 48 \div 12$

- = $^{\circ}$
- e) Write down graphical image of the problems below, then take turns in saying them aloud and finding the answer (one of you should say the equation and the other should give the answers without looking at the paper).
 - 1) Multiply 7 by 9. Add 9. Divide by 6. Subtract 3. What is the answer?
 - 2) Subtract 8 from 24. Divide by 2. Add two. Multiply by 10. What is the answer?
 - 3) Add six to eight. Multiply by 3. What is the answer?
- f) Using letters as symbols, write a formula for each relationship.
 - 1) Work is the product of force times the distance through which the force acts.
 - 2) The volume of a cube is calculated by multiplying the length times the width times the height.
 - 3) Power is the rate at which work is done; it is computed by dividing work by time.
 - 4) Kinetic energy is calculated as one half the product of the mass times the velocity squared. _____

Lesson adapted from: A. Rozkošná (Sources: Bates, Martin and Dudley-Evans, Tony: Nucleus of General Science. Longman 1990).