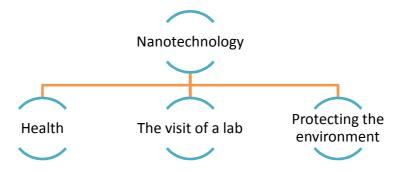
VIDEO COMPREHENSION. A Precious Envelope for Budding Scientists (correction)

1. These topics all belong to the animation movie.

My score: correct answers /4

Write their names in the bubbles, with the most important one at the top.



<u>2. The characters (personnages) in this story. Match their names and descriptions</u> My score: correct answers /5

Works at the lab: YES or NO (write? if you can't say)	Characters	rs Descriptions	
?	Nano	The young girl who finds the envelope	
NO	Nat	The young boy, Nat's brother	
YES	Kira	The scientist	
NO	Pat	The yellow cartoon character	
YES	« Doctor John Old »	The lady scientist	

3. About nanotechnology. What are the 2 main parts in the movie ? Choose and write their names in the

<u>boxes. Cross out the wrong ones</u>. My score: correct answers / 2

a)The dangers of nanoparticles; b)the process = how nanotechnology works;

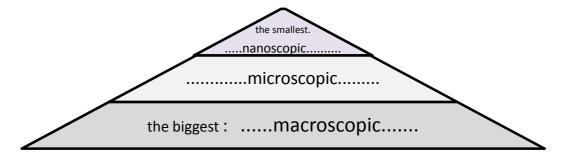
c)the nanotechnology inventors; d)the advantages of nanotechnology.

The 2 Main parts:

The process

the advantages of nanotechnology

<u>4. Place the 3 words in the grid, from the smallest to the biggest :</u> My score : correct answers /3 microscopic macroscopic



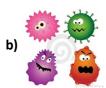
5. Look at the pictures. Circle the letters that belong to each « world » Like

The macroscopic world contains pictures a b c d e f

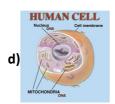
The microscopic world contains pictures a b c d e f

The nanoscopic world contains pictures a b c d e f

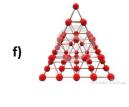








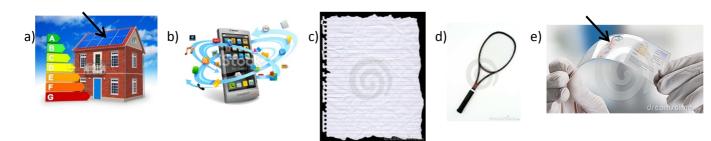




6. Write the letter for each word in this grid:

Viruses	A human being	An ant= an insect	A human cell	A diamond carbon molecule	A human hair
b	е	а	d	f	С

7. These innovations were created thanks to nanotechnology ... or not !



Match their names and the correct letters:

Object name	Matching Letter
A tennis racket	a
Photovoltaïc cells to make solar panels	b
A flexible screen	С
A mobile phone	d
A sheet of paper	е

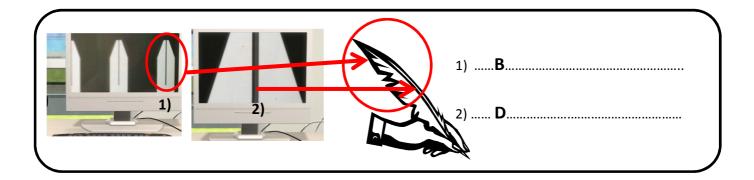
8. Choose and write a; b; c; d; e; f in the correct box. My score: correct answers /5

Object(s) made with the help of	Object(s) made without any nanoparticles.	
nanotechnology	Write a or b or c or d or e	
Write a or b or c or d or e		
a;b;d;e	С	

Video Comprehension. VIDEO CLIP N°1 (Correction)

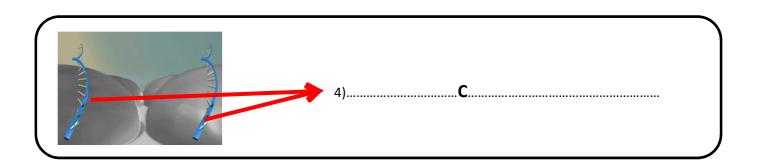
<u>Choose the correct expressions from the film and write A or B or C or D or E next to the corresponding picture.</u>

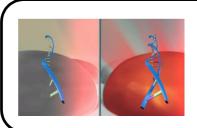
- A) the nanodrop will become coloured if it contains this gene; B) a feather of nanometric size.
- C) DNA molecules that contain the gene of a disease inside minuscule drops
- **D)** a canal where the ink arrives; **E)** « So this is what a bioplume is? »





3)**E**.....





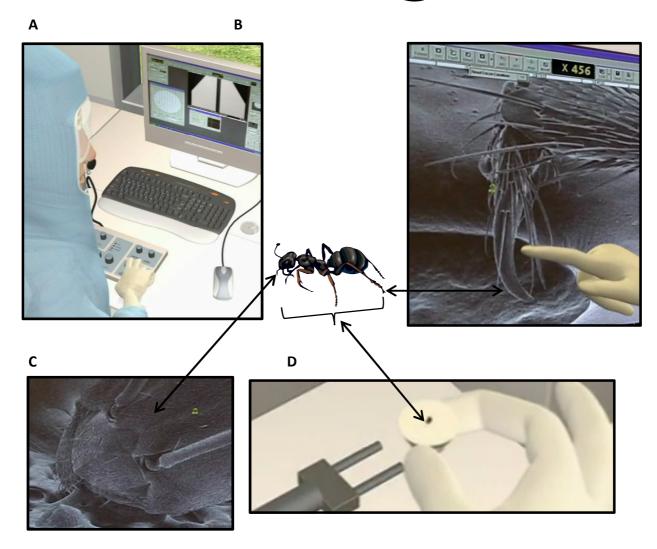
5).....**A**.....

VIDEO COMPREHENSION N° 2 (correction)

<u>Look at the snapshots A, B, C, D from the film extract. For each sentence, choose the corresponding snapshot.</u>

- 1. We can see the head of the insect on snapshot C
- 2. This shows the leg of the insect with a hook at the end. Snapshot **B**.
- 3. On snapshot **A**, we can see the scientist working on his computer. The boy, Pat, is pointing at the screen.
- 4. This tiny black dot on snapshot **D** shows an insect.
- 5. Did you hear the insect's name? Circle it! a beetle





Reorder these expressions: 1st sentence = C; $2^{nd} = D$; 3rd = A; 4th = E; 5th = B

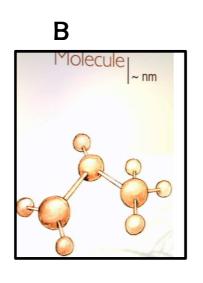
- A. Who would like to take the controls?
- **B.** When we observe the small details we can better understand the ant and how this small world works.
- C. Would you like to observe an ant?
- **D.** Here the ant is in a vacuum I switch on the electron beam that will allow us to see it. Clipart name: 00346891.wmf
- **E.** You turn this button to zoom in and this one to focus.

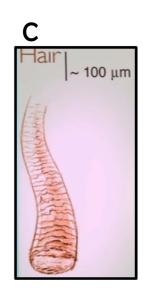
Mireille Meens, collège Jean Jaurès à Castanet-Tolosan

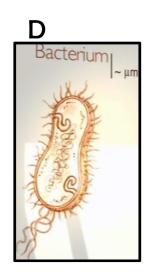
VIDEO COMPREHENSION N°3 Macro to Nano (Correction) Write in the grid the letters (A to F) or names written on the posters.

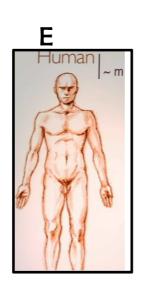
The scale	Write the names or letters (A to F)	Visible to the naked eye (à	
(l'échelle)	of the elements	l'œil nu) Choose YES or NO	
The macroscopic world :	A insect ; E Human	YES	
The microscopic world	C Hair; D Bacterium	NO	
The nanoscopic world	B Molecule; F Virus	NO	













Instruction : Complete the 2 sentences.

The smallest « world » is the **nanoscopic** world.

the largest « world » is the **macroscopic** world.

1. So far, how many different scales of elements have been discovered? 2 (3); 6

2. There are many more discoveries to be made at the nanometric scale :(YES) NO