





## ANGLAIS – ÉVALUATION

### Compréhension de l'oral, de l'écrit et expression écrite

L'ensemble du sujet porte sur l'**axe 6** du programme : **Innovations scientifiques et responsabilité**.

Il s'organise en trois parties :

#### 1. Compréhension de l'oral

#### 2. Compréhension de l'écrit

#### 3. Expression écrite

Afin de respecter l'anonymat de votre copie, vous ne devez pas signer votre composition, ni citer votre nom, celui d'un camarade ou celui de votre établissement.

Vous disposez tout d'abord de **cinq minutes** pour prendre connaissance de **la composition** de l'ensemble du dossier et des **consignes** qui vous sont données.

Vous allez entendre trois fois le document de la partie 1 (compréhension de l'oral).

Les écoutes seront espacées d'une minute.

Vous pouvez prendre des notes pendant les écoutes.

À l'issue de la troisième écoute, vous organiserez votre temps (**1h30**) comme vous le souhaitez pour rendre compte **en français** du document oral et pour traiter **en anglais** la compréhension de l'écrit (partie 2) et le sujet d'expression écrite (partie 3).

**Les documents :**

Modèle CCYC : ©DNE																				
Nom de famille (naissance) : <small>(Suivi s'il y a lieu, du nom d'usage)</small>																				
Prénom(s) :																				
N° candidat :											N° d'inscription :									
 Liberté • Égalité • Fraternité RÉPUBLIQUE FRANÇAISE	<small>(Les numéros figurent sur la convocation.)</small>																			
Né(e) le :			/			/														

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## Document audio

**Titre :** Doctors learn the basics of robotic surgery

**Source :** NPR, June 23, 2019

## Texte 1

### Stevie the Robot Wants to Help the Elderly

Robotics engineers from Trinity College Dublin unveiled their first prototype social robot designed to work in assisted care at the Maker Faire Rome 2018, which is Europe's largest conference for makers and inventors. Initially, Stevie the robot is going to facilitate and help the elderly and people living with disability in Ireland.

Stevie is a friendly looking robot with some human-like features. He performs some autonomous tasks and some others are human-controlled. Some of Stevie's first tasks include performing routine rounds in nursing homes and assisted care facilities. [...]

Stevie's two arms and head interface allow him to provide social feedback to people working in his vicinity. Sounds, lights, facial expressions, and body language help Stevie to communicate and respond appropriately to different situations he may encounter. Stevie is mobile and uses cameras in addition to depth, tactile, inertial, and voltage sensors that allow him to interact intelligently with his environment. On-board processors and wireless connectivity such as Wi-Fi and Bluetooth diversify Stevie's potential uses. In addition to performing common functional tasks, Stevie can interact socially with residents.

"The social interaction that is possible with the robot brings many benefits. First, it provides a compelling way to reduce boredom and stimulate mental activity. It can have basic conversations with its users and play a series of simple games, and on a grander level, it can function as a control interface with many different types of technology," said Assistant Professor in Mechanical and Manufacturing Engineering at Trinity, Conor McGinn, head at the Innovation and Robotics Lab.

Social robots empower older people and health services. According to Professor McGinn, Stevie is being developed to augment, not replace human care.

Stevie can also be connected to the smart home appliances and monitor things such as the room temperature, notifying the user about changes and offering to make changes.

www.Interestingengineering.com, 14 October 2018

## Texte 2



## We live in Zoom now

Teenagers have jokingly referred to themselves as “Zoomers” online for years; now the name is literal. Overnight, Zoom has become a primary social platform for millions of people, a lot of them high school and college students, as those institutions move to online learning. Zoom Video Communications is a videoconferencing company in San Jose, Calif., that has been thrust into the spotlight over the past week. On Monday morning, its iOS app became the top free download in Apple’s App Store. On Sunday, nearly 600,000 people downloaded the app, its biggest day ever, according to Apptopia, which tracks mobile apps. [...]

Zoom has been preparing for this moment since the new coronavirus began spreading in China in January. [...]

No amount of planning could have anticipated the company’s emergence as a cultural phenomenon used to host parties, concerts, church services and art shows. Zoom could not have prepared to become a meme. [...]

Many students say that adjusting to school closings and public health guidelines to isolate has been incredibly hard. They have used Zoom to attempt to replicate some sense of normalcy. Parties, sorority socials and beer pong nights have found a new home on Zoom.

But why Zoom? Why not Skype, which has been around since 2003? Or Google Hangouts or Facebook Messenger or Apple’s FaceTime? They’ve all had a boost recently. The product’s layout makes it easy to talk with multiple people at once. And Zoom has some features that mirror social media apps. A button called Touch Up My Appearance casts a soft focus over the video display, smoothing out the skin tone of the presenter like an Instagram filter. Custom backdrops can hide messy bedrooms. Zoom has a “hotter brand” association, said Rishi Jaluria, a senior research analyst at D.A. Davidson. “Younger people don’t want to use the older technology.” Joshua Rush, 18, a high school senior in Los Angeles, said: “Out of nowhere, I feel like Zoom has clout<sup>1</sup>.” People also pick Zoom because it works. Paul Condra, a technology analyst at PitchBook, said Zoom’s reliability and simplicity has made it the “standard” in videoconferencing software.

*The New York Times*, March 17, 2020

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<sup>1</sup> *clout*: influence

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### 1. Compréhension de l'oral (10 points)

Vous rendrez compte, **en français**, de ce que vous avez compris du document.

### 2. Compréhension de l'écrit (10 points)

Give an account of text 1 and then of text 2, **in English** and in your own words.

After your accounts of texts 1 and 2, explain to what extent these texts show that new technologies favour social interaction.

### 3. Expression écrite (10 points)

Vous traiterez, **en anglais** et en **120 mots** au moins, l'**un** des deux sujets suivants, au choix.

#### Sujet A

Do you think that robotic teaching is the future of education? Explain your view.

#### Sujet B

It is Computer Science Education Week. Write an article to post on your high school website to share your experience about the use of new technologies during Covid-19 lockdown.