Titre	SCIENTIFIC DEVELOPMENT
Exemples	1. Facts and events
	Robocrop: raspberry-picking robot ¾ cost-efficient, more efficient (bcs it can work 20 hours a day and pick 25,000 raspberries), tackles the issue of shortages of seasonal workers bcs of Brexit. Automation can create a drop in the number of low-skilled jobs but a rise in high-skilled jobs.
	<u>Covid-19 vaccine</u> : an innovative vaccine was created hastily (using RNA) and is being inoculated. Its side effects are unknown. This leads to skepticism.
	<u>Tesla</u> : According to Elon Musk, it's to limit the use of fossil fuels. + starship in order to create a colony on Mars.
	GMOs: modification of the gene pool of an organism. Most of the GMOs (99%) are created to resist against insects and pesticides. Problems: increase of the use of pesticides because GMOs can resist
	Some GMOs are made to produce pesticides by themselves
	GMOs accumulate pesticides ¾ impact on animals which eat them and on human health Development of insects which are resistant
	CRISPR-Cas9: "scissors" which cut DNA, discovered by Emmanuelle Charpentier and Jennifer Doudna, and could cure cancers and genetic diseases (HIV). It is the association of RNA which guides an enzyme to cut, modify or replace a defective gene. Problem: can be used to create lethal virus/ ethical problem can lead to a new legislation
Quelques	Should all scientific research be approved and developed ?
problématiques et	What are the consequences of scientific development?
axes de réflexion	Is scientific development always done for a good cause?
	Should scientific development be funded by private or public bodies ?
	□ Improves human life
	□ Can be used only to make profit
	□ impact human health and animals (disease, death)
	□ impact on work, environment, healthcare, people's trust
Vocabulaire	GMO = OGM
	Gene pool = patrimoine génétique
	Genetic disease = maladie génétique
	Defective = déficient
	Lethal = mortel
	Research = recherche
	Inoculate = inoculer, vacciner Carry out research = faire des recherches
	Carry out research = faire des recherches