2020 - 2021

TONNELLE Nathan

Groupe L3-B1-2

DST

AN0501



# Question 1

The paper "the chemistry of love" answers the question: what happens in the brain when love hits us. This document answers that the effects of love are the activation of 3 molecules: dopamine, serotonin, and adrenaline, causing joy and good mo od in human beings.

# Question 2

To answer this question, I will use an event of the year that is taking place at the moment: Black Friday. Let's imagine that we want a new phone, we will start by looking at the main features we want: a big battery, able to last the day or more, a good camera, and at least 128Gb of storage. So, we're going to go to our favourite site and look at the prices with the data we want. We enter them in the available sorting (storage capacity, battery, and our favourite marks), there is a range of phones still available. We go to the first one, unfortunately it doesn't have a big battery, but not a good camera, let's go to the next one. It has a very good camera but a smaller battery. We went through all the phones available, however we will have to make a choice, between battery and camera, for my part the choice will be on the camera, because there are external batteries that can recharge our phone if we need it.

# Question 3

For the first part, we are going to see the impact of science in our daily lives. First of all, we are going to see the effects that science has on our daily notes, with the document "How science affects your life". First of all, we are going to see the effects that science has on our daily notes, with the document "How science affects your life". With this document we will see that science surrounds us and helps us in our daily lives, with, for example, GPS, which helps us to go from point A to point B, or telephones, which allow us to call our mother and communicate with her while we are a few kilometres apart. As we have said before, science is useful to us in our daily lives, to help us find our way, but also to get closer to us, as we can see in the document "13 Scientific Explanations For Everyday life", which shows us how science is closer to us than we think. The document takes the example of post-it notes and how they work, with glue molecules and water, telling us how easy it is to reuse them and how easy it is to clean something as well. What leads us to knowledge through science, it is true that the knowledge we have, is based on what our ancestors learned, but thanks to modern means, we can go even further, and see what happens when we experience some situations, this is what the document "The Chemistry of Love" shows us. It teaches us what messages are delivered by an event and why we feel particular feelings. Our brain receives neurotransmitters which it interprets and reacts to them, here with love, it sends back dopamine, serotonin and adrenaline, and this is what makes us feel happy and joyful. However, the hormones that our brain sends us are very addictive because they reward us and we love it, and each hormone has its own particularity and usefulness in the body, so from one person to another we don't regulate it in the same way.

# Question bonus

I have included the document "The Chemistry of Love" in part 1, subpart 3, because in this part I talk about science and what it teaches us about our daily life, its usefulness and how we use it. This document is about the messages received and interpreted by our brain about love. It describes the different mechanisms and hormones involved in this reaction. This is why it seems logical to me to place it at this moment of my synthetic work.