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Esports as Accelerator for Social Inclusive Education

LESSON
DIGESTION

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DIGESTION

In this exercise the students will write a storyline for a fictional platform game. In the game you must fight your way through the digestive system and pass through the “attacks” from the different organs.

Subject and level
Biology C (Danish levels)

Connection to curriculum
Example of one of the body’s organ systems

Didactic and pedagogic considerations
Can be a challenge for dyslectic students

Time estimate
2-3 hours as a stand-alone biology exercise, longer if coupled witt another subject

Group size
1-2

Overall introduction to exercise
The storyline for the fictional game must be as biologically correct as possible. All parts of the digestive system must be included in the game, and by so test the students understanding of both enzyme function and the function of the different digestive organs. The exercise can be done in collaboration with other subjects such as language classes, media science/programming, art etc. By doing so you can as an example focus on the narrative of the storyline, make a mock-up of the game or concept art respectively.

DIGESTION

Exercise as presented to the students

In the exercise we are taking a closer look at the digestive system and the different steps it takes to break down the food we eat.

The trip through the digestive system is long and on its way through, the food encounters both acid baths and destructive enzymes. Your job is to design a storyline for a fictional platform game that takes you through the foods digestive journey.

As an inspiration, this video gives an inside view of the digestive tract.

Beware, it is not for those with a sensitive stomach. Yes, pun intended!

Starting at the mouth, your storyline must take us through all the elements of the digestive system.

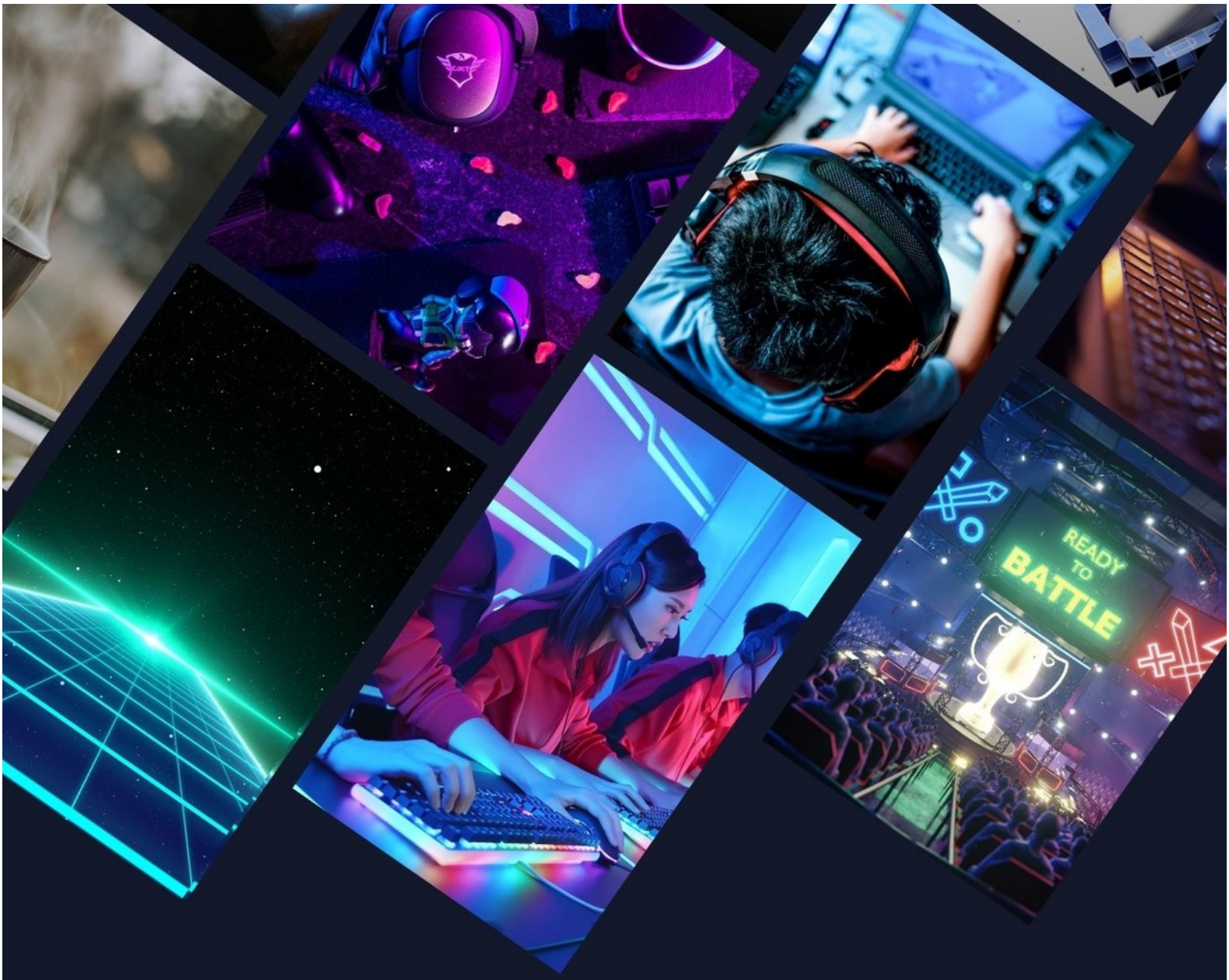
For each step of your game, you must consider the following;

- Which “attack” does the food encounter?
- How can the food avoid being digested?

Does it need a special armor og weapon to move on to the next stage?

Each step of your game must include a description of the normal biological function, and which part of the food gets digested.

End your storyline with the final Boss fight against the bacteria in the colon.



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