



O3.2_CLIL plan for a skeletal system

Age group/class: 14-15 years old/year 9

Lesson title: Skeletal system of a human

School Discipline: Biology

Key concepts: anatomy, skeleton, skeletal system

Aims:

- Experience the importance of skeleton and the ways to keep them strong/healthy
- Get the basic knowledge of the skeletal system
- Be able to distinguish the different bones

Skills developed: observation, description, analysis, research, collaboration

Materials/Equipment needed:

- VR headset
- VR video link (<https://eloquent-ramanujan-887aa5.netlify.app/biology.html>)
- https://www.youtube.com/watch?v=_hyqIKVm2ks
“What If We Didn’t Have Bones. What Would Happen?” (the video may be shown in the introductory activity to activate the previous knowledge)
- Handouts: a picture of a skeleton (<https://www.pinterest.com/pin/278097345720540302/>), worksheets for the skeletal system (<https://www.pinterest.co.uk/pin/161707442851580337/>)

Lesson plan:

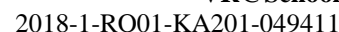
Stages	Description of activity	Time
Preparation before the lesson	If this is a first VR experience for students – go through the safety rules: <ul style="list-style-type: none">• Learners are to sit down whilst using the VR glasses and not hold anything in	





	<p>their hands, unless the experience is of such a nature that it requires you standing, in which case, ensure enough space is allowed around all students.</p> <ul style="list-style-type: none"> Learners must not use the headset when they are: tired, need sleep, under emotional stress or anxiety, when suffering from cold, flu, headaches, migraines as this can worsen their susceptibility to adverse reactions. Learners should be given the choice to opt out of using VR. 	
Introduction	<ul style="list-style-type: none"> Warm up by asking students: <ul style="list-style-type: none"> -What do you know about the skeletal system? -How many bones do you think we have in our body? The teacher shows the YouTube clip “What If We Didn’t Have Bones—What Would Happen?” ask the students if their predictions were right or not. <p>Show the Picture (or a model) of a skeleton and explain it in depth. Say why the skeleton is important. The name and location of the major bones in the body; explain the term <i>bone marrow</i>.</p> <p>Introduce the phrases :<i>consist of, is formed by, is made up of, contains</i>(while presenting the information on the skeleton system, emphasise these phrases).</p> <ul style="list-style-type: none"> Ask the students if they know how to keep the bones strong and healthy. 	<p>2 min</p> <p>4 min</p> <p>1 min</p> <p>15 min</p> <p>1 min</p>
Initial Immersive Experience	<p>Say that they are going to see a short video on the VR headsets.</p> <p>Learners put on the VR headsets and explore the video at their own pace.</p>	<p>2 min</p>





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	The teacher ensures that the answers and the pronunciation of the terms are right.	
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