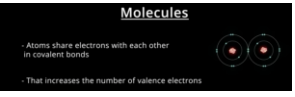
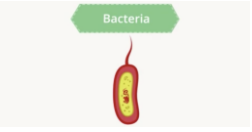
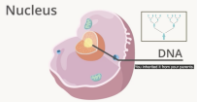
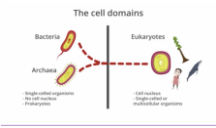



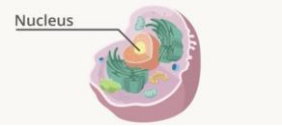
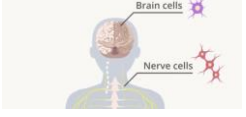



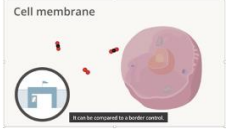





**Binogi Video: The Animal Cell**  
 English-Mandarin Bilingual Concept List  
The Escape Projects

<p><b>Molecule</b>        A group of atoms attached to each other by a chemical bond.</p>	<p><b>分子</b>        通过化学键相互链接的一组原子。</p>	
<p><b>Bacterium</b>        A group of organisms consisting of only one cell. They can be found everywhere in our surroundings. Some of them can cause diseases while others are essential to life.</p>	<p><b>细菌</b>        由一个细胞组成的一组有机体。它们无处不在。有些细菌会导致疾病，而另一些则是生命所必需的。</p>	
<p><b>Genetic</b>        Something related to genes and how they are passed down from generation to generation.</p>	<p><b>遗传</b>        与基因相关，代代相传的现象。</p>	
<p><b>Cell</b>        The smallest unit of life that exists in all living creatures. The human body consists of several millions of cells and the simplest organisms consist of only one cell.</p>	<p><b>细胞</b>        是生物最基本的结构和功能单位” (2004, p.16)。人体由上百万个细胞组成，而最简单的生物体就是一个细胞。</p>	
<p><b>Mitochondrion</b>        A part of the cell that converts nutrients into energy.</p>	<p><b>线粒体</b>        细胞的组成部分，负责将营养物质转化为能量。</p>	
<p><b>Deoxyribonucleic Acid (DNA)</b>        Molecules that carry genetic information. They act like a blueprint for the structure of all organisms.</p>	<p><b>脱氧核糖核酸 (DNA)</b>        携带遗传信息的分子。作为所有生物结构的模型。</p>	
<p><b>Protein</b>        A substance that plays an important role in the entire body. It is needed to build up the body's organs, hormones, and transport of nutrients. Protein is found in beans and meat.</p>	<p><b>蛋白质</b>        是生命的物质基础。主要构建器官和激素，及负责营养物质的运输。豆类和肉类通常含有蛋白质。</p>	
<p><b>Cell Nucleus</b>        The center part of the cell where the cell's development and functions are controlled.</p>	<p><b>细胞核</b>        细胞的中心部分，控制细胞的发育和功能。</p>	
<p><b>Nerve Cell</b>        A cell that is a part of the nervous system.</p>	<p><b>神经细胞</b>        组成神经系统的一种细胞。</p>	
<p><b>Organelle</b>        Parts inside the cell that constitute specific functions.</p>	<p><b>细胞器</b>        细胞内部具有特殊功能的结构。</p>	





<p><b>Cell Membrane</b> A thin layer that protects and controls which substances can pass in or out of the cell.</p>	<p><b>细胞膜</b> 细胞外侧的一层薄膜·能控制物质的进出·并起到保护作用。</p>	
<p><b>Lysosome</b> A part of the cell which is responsible for disposing of waste material and transporting it out of the cell.</p>	<p><b>溶酶体</b> 细胞的一部分·负责处理并排出废物。</p>	
<p><b>Microscope</b> An instrument used to be able to see objects that are too small to see with the eyes.</p>	<p><b>显微镜</b> 用来观察肉眼无法识别物体的一种仪器。</p>	
<p><b>Organism</b> A living creature such as an animal, a plant or a bacterium. It can be made up of multiple cells or only one cell.</p>	<p><b>生物</b> 是一个有机体·例如动物·植物或者细菌·可为多细胞生物或者单细胞生物。</p>	

Note: The Animal Cell is covered in Grade 7 Biology/Science in China. The content will be refreshed and taught deeper later in Grade 10.

Reference: Zhenfang.W, Wenjun.Li, Zhiguo.Z, Hongmin.T, Libo.Zhou&Youxun.W.(2004) Yi Wu Jiao Yu Ke Cheng Biao Zhun Shi Yan Jiao Ke Shu: Sheng Wu Xue (Qi Nian Ji, Shang Ce).

