

Cell representation



Years 7-8
Years 9-10



Groups of 3



15 minutes

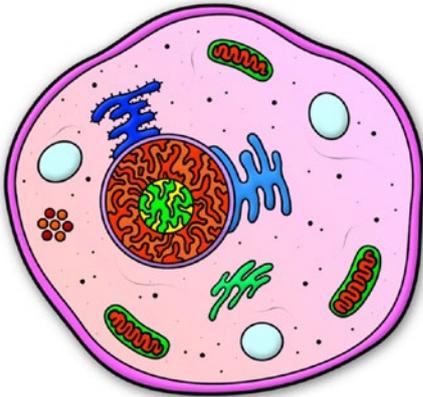


Pens/paper
Access to a device
with internet

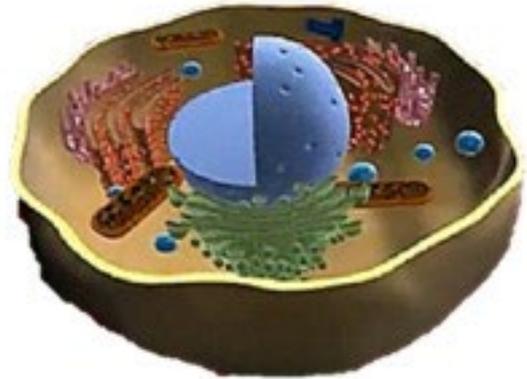
Student Instructions

Compare two different representations of a human cell below. Each student writes down one strength and one weakness of each representation on a piece of paper.

2 Dimensional cross section



3 Dimensional model



The perfect model

Imagine you could use VR technology to make the perfect model of a cell or another related biological concept. Attempt to brainstorm below the main features of your virtual reality tour that would make this representation the “perfect model”.



What are the steps in the tour?

What would it look like?

How would it make the audience feel?

What would it highlight?

Cell representation: extension

Kate Patterson

Check out digitalcareers.csiro.au/KatePatterson

Kate creates animations and 3 dimensional virtual models in the field of medicine. These models have revolutionized the way that medical professionals can view and discuss the human body.

Modelling in Science communication. Watch this video at digitalcareers.csiro.au/links

How does the digital representation in this video convey a message to the viewer? How is this different to the two dimensional and 3 dimensional models in the activity on the previous page?



Changing representations

Pick a career that you might be interested working in. Do some research into the ways that digital representations and modelling might be used in this career in the future.

Design a plan for a digital representation to improve a solution in your world

Use a design thinking process to create your own representation



Submit your design to YICTE!

www.youngictexplorers.net.au



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