

Unit: 3.7

Simulation

Key Learning

- To consider what simulations are.
- To explore a simulation.
- To analyse and evaluate a simulation.

Key Resources



Key Questions

What is a computer simulation?

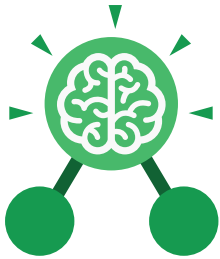
A program that models a real-life situation. They let you try things out that would be too difficult or dangerous to do in real life.

What kind of simulations are there?

Some simulations represent dangerous situations for training such as flying in space, carrying out medical operations or piloting an aeroplane. Others simulate activities for fun, such as racing simulations.

Are there any problems with simulations?

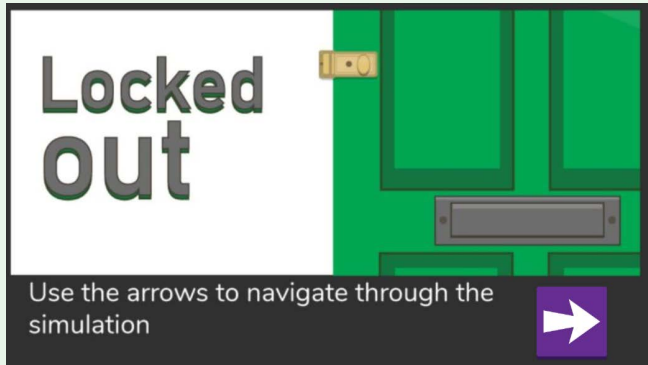
Simulations are often too simple; and unexpected problems can still occur in real life that are difficult to simulate. Simulations can also be very expensive.



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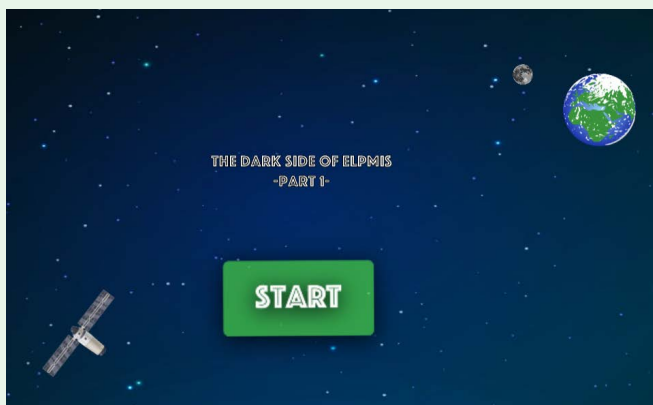
Simulation

Key Images



Locked Out

A lively dog causes problems for Mariza, her baby brother Sam and her mum.



The Dark Side of Elpmis

Trainee astronauts get ready for a mission to the planet Elpmis.

Key Vocabulary

Analysis

A detailed examination of something.

Simulation

A program that models a real-life situation. They let you try things out that would be too difficult or dangerous to do in real life.

Evaluation

To judge the value, condition or effectiveness of something.

Modelling

The act of representing something, often on a smaller scale.

Decision

The act or result of making a choice after careful thought.