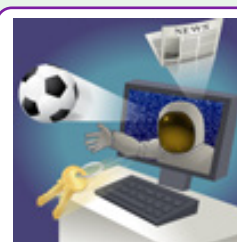# Unit: 3.7
## Simulation

### Key Learning

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

### Key Vocabulary

**Simulation**
A computer simulation is 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.

### Key Resources

2Simulate

### Key Questions
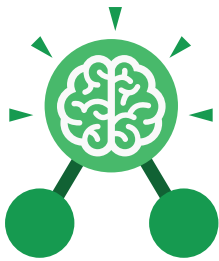
**What is a computer simulation?**

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.
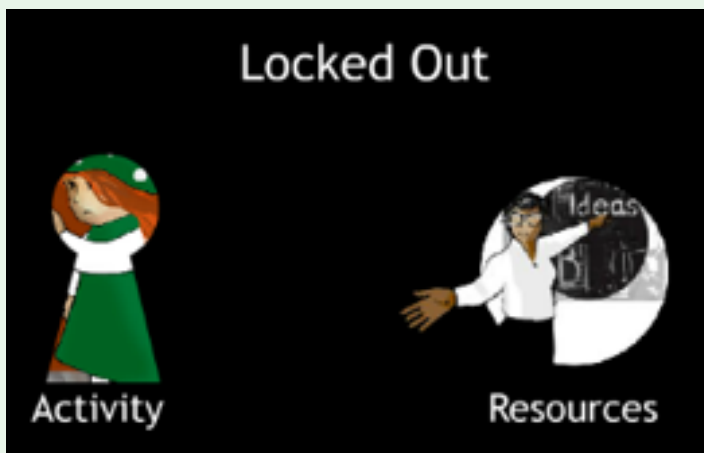
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**Key Images**



2Simulate main screen



**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.