## **Amblecote Primary School—Knowledge Organisers**

Phase: 3/4 Subject: Computing Focus: Simulations Term: Summer



## What I should already know?

What it means to simulate something

You will probably have experienced some type of simulation

	<u>Vocabulary</u>
IRL	An acronym that means In Real Life
User in- terface	How someone interacts with the simulation—are the buttons easy to navigate?
Computer	The hardware that runs a series of programs—It consists of inputs, outputs, storage, RAM (Random access memory), CPU (Central processing unit), GPU (Graphics processing unit) and a power source.
Low risk	When the chance of something problematic happening is reduced.
Evaluated	When something is tried and tested against stated design to see if it is worthwhile and how beneficial it is.

## By the end of the unit I should know...

The role that simulations play within our modern day society.

How we can use simulations to improve our understanding of the world.

Understand what can and can't be simulated.

## **Knowledge— Computing**

To consider what simulations can be used for. Explore a simulation and develop a new understanding of a topic or scenario. Learn to evaluate a simulation—picking up on the good and bad points and how they may be improved.



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.

Question 1— What is a simulation?	Start of	End of	Question 3 - Why is a simulator/simulation a good	Start of	End of
	<u>Unit</u>	<u>Unit</u>	thing?	<u>Unit</u>	<u>Unit</u>
When your sim card runs out of money			Because it's a cheap game		
When you perform incorrect calculations on a calculator			They allow only professionals to practice		
A representation of real world activities within a virtual environment			They allow everyone to practice an activity at a lower cost of money and potential danger		
None of the above			They are very simple and anyone can use them straight away		
Don't know			Don't know		
Question 2- Why might a simulation not be a good idea?	Start of Unit	End of Unit	Question 4- What sort of simulations are here?	Start of Unit	End of Unit
The creators don't know enough about the topic and they make it too simple			Racing simulator		
			Truck driving Simulator		

, ,	<u>Unit</u>	<u>Unit</u>
The creators don't know enough about the topic and they make it too simple		
They are too cheap		
There are too many simulations		
It may require advanced computer power, costing the average person too much money		
Don't know		

Question 4- What sort of simulations are here?	<u>Start of</u> <u>Unit</u>	End of Unit
Racing simulator		
Truck driving Simulator		
Heart surgery simulator		
Goat simulator		
Don't know		

What I would like to find out?		
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Answers to my questions			