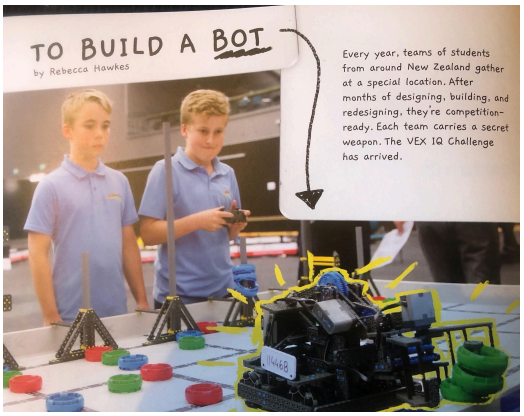
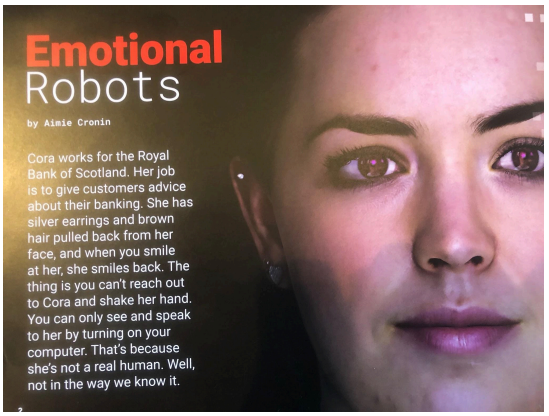
Literacy - Reading - Week 1-2 Term Three
Cracking the Code, Connected, Level 3 = 'To Build A Bot'
Digital Space, Connected, Level 4 = Emotional Robots





Name:
Date:

Reading Learning Goals

- I am learning to explain why the author has written a text.
- I am learning to understand new words.
- I am learning to describe the features of different genres of text (e.g. articles, recounts, persuasive text, plays, explanations, reports).
- I am learning to use my prior knowledge (what I already know) to help me understand the text.
- I am learning to compare two texts.

.

Our success criteria

- I can show I have understood the information in the texts by answering questions about the text.
- I can activate my prior knowledge before reading.
- I can describe the features of non-fiction texts.
- I can find the meanings of words that are new to me.
- I can say the similarities and differences between two texts.

1) **Before you read both texts** activate your prior knowledge. What do we already know about building robots and artificial intelligence?
I know what AI stands for Artificial intelligence. Robots are taking over jobs and for cleaning. Robots use raspberry pies and algorithms.

Now read the text, ‘ To Build A Bot’ and complete the following activities.

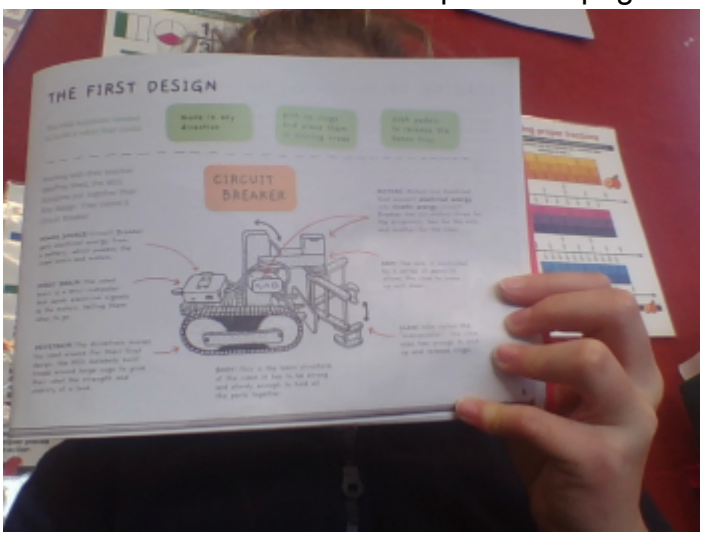
2) After reading pages 2-3 watch these videos so you can understand a bit more about the VEX IQ Challenge.

   Click here for video one.

   Click here for video two.

3) Read page 4 then explain what the three challenges are that each team has to complete with their robot. The teams have to be able to control their robots using a remote control.

4) Read page 5. Briefly explain what the seven aspects are that their robot has to have. Also take a picture of page 5 and insert it here.



   Cicret bracelet gets electrical energy from a battery, which powers the robot brain and motors.

5) Read pages 6-7. What were the problems with their first arm and claw that they designed? It moved slowly and couldn’t extend it’s arm very far.

6) Read pages 8-9. What computer program did the students use to create code for their robot? They used a program called Modkit.

7) Write down what these words mean...

   - Kinetic energy = the energy that comes from the movement of an electric charge.

- Pivot points = the central points from which something balances of turns.

Now read the text, ‘ Emotional Robots’ and complete these tasks

1) Read pages 2-3. What is the name of the New Zealand company making this technology and what do they specialise in? The company name is soul machines and they make human like robots.

2) Read pages 4-5. What is Artificial Intelligence? Artificial intelligence is when a computer can do things that a human can do and have emotions and do stuff themselves and think for themselves.

3) Computers are great at logical thinking like maths but what is the challenging thing to programme a computer to do in order to seem more human? To build a brain exactly like a Human brain.

4) How many years away do scientists predict we are from building ‘human level’ artificial intelligence? Some scientists think we are about thirty years.

5) Read the rest of the text. Fill in the chart below about the pros, cons and things to think about with developing artificial intelligence.

Pros	Cons	Things to think about
They could clean your room for you. Clean your house and do you landery. They can do your jobs and take them over. You can go and do the things that you want to do well they do stuff that you need doing.	That the robots can take over and no one will have any jobs and no money. The robots can do anything once they break down. They can take over people's lives and then there will be no living people just robots.	Could robots have emotions? Could they feel love? Should robots have rights to be on this planet? Could they be smarter than humans?

6) What do these words mean…

- Avatar = a digital icons or figures that represent people or computers
- Ethics = and area of study that considers what is right and what is wrong
- Neuroscience = scientists who study the nervous system and the brain

7) We have now read two texts about robots. One was about simple robots designed to perform a limited set of task controlled by humans and one text was about creating artificial intelligence. Let's think about the similarities and differences between these two texts.

To Build A Bot Differences	**Similarities**	**Emotional Robots Differences**
These robots didn't have ai **They competed against each other and they had to make their robots move rings around the playing field.**	**They both talk about robots and have information about what robots do. They are both non fiction.**	**Adults building these robots. This was about robots with A.I. They can help us with jobs and give us company**