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Module A.1 Level3 Answers

1a. The electronic devices and component that provide the logic and computer processing in the Simon game are the circuit board and lots of wires that connect the circuit board and the batteries for the game to function properly.

1b. When players press the different buttons, there are wires which sense the activity and they connect to the circuit board which processes the information and give you an answer (if you are right or wrong).

1c. Electronic devices that provide output to players are the speaker, which provides sound and different coloured light which provide sight.

2. The Simon game used a complicated circuit controlled by a microprocessor. It needed big batteries to provide power for the light bulbs as well. Now, it is very easy to reproduce the Simon game using 4 LEDs and a microcontroller and a super low price, and it will run off two small ‘AAA’ 1.5 cells only. If you search up Simon game download on Google, you will find many links that will let you download the game onto your PC or laptop.

3a. Similarities between the Simon game and other classic games like the Nintendo DS are that they both are older games, they both are handheld, they both have sounds and sights, and they both have challenges you have to solve.

3b. Differences between Simon and classic games like the Nintendo DS are that the DS includes pictures, has multiple games you can play on it and needs to be used with a stylus whereas the Simon game has only colours, only lets you solve patterns and you play it by pressing the buttons with your hands (no stylus or other object needed).

4a. The Simon game is like modern console games because they both have computers in them, sound effects, colours and give you challenges to solve.

4b. The ways that the Simon game is different from modern console systems are that the Simon game is handheld and is portable, you play it by directly pressing the buttons, it only has colours and sounds, and it is very old whereas modern console systems are not handheld or portable, they are played with controllers that connect to the console, they have different games and challenges you can play and solve, and they are very new and advanced.