Must

Be powered by a wall adaptor 12V

Have an LCD for user feedback

Must have a unique code to unlock

Use an NES controller for user input

* Use 8-2-3 decoder- This will allow us to use less GPIO pins to interface with MCU.

Be user upgradable.

- Route unused GPIOs to headers so user can add peripherals to board i.e. LEDs, buzzer, motion sensor etc.

Should

User programmable combination

May

Different ways to unlock

Puzzle game

Back up battery