

PROJECT ONE [DRAFT]

Project Semester II

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Project Idea: Weather Forecast - LED Cloud Lamp

Description: *To create a cloud lamp that lights up in different colours suited to the forecasted weather.*

The light will be connected via wifi to the internet to sync with Open Weather's API and for updates to the program code for future enhancements. A sound sensor will also be connected for future upgradability.

Future upgrades may include customised light show programs and/or reactivity to soundscapes in the room (conversation or music).

Colour Code: The weather forecast will be represented by the following colours:



Ex. Design:



Items thought to be required:			Part Number to Order
1	Electronic	TBC: SBC Wireless Enabled	TBD
2	Electronic	3m RGB LED Strip	TBD
3	Electronic	Sound Sensor	TBD
3	Electronic	Breadboard?	TBD
4	Electronic	Power Supply	TBD
5	Craft	5L Plastic Bottle	
6	Craft	Hypoallergenic Polyester Fiber	
7	Craft	Fishing Line	
8	Tools	Hot Glue Gun	
9	Code	OpenWeatherMap API	
10	Code	Main Language TBD	