Group number: 5 Person leading this discussion: ???

Journal Paper: LEDs for photons, physiology and food

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| **Aims & Motivation**: *What problem or issue does this paper address? Is there sufficient background/context given?*  Lots of Context and background info  Problems: most related to plants are still questions and studies, more understanding needed. |
| **Knowledge:** *What have you learned from this paper? What other information do you require to help you with your work?*  Plants react differently to many different wavelengths of light and LEDs have the power to output multiple spectrum of light that can be adjusted and controlled precisely to how we want, along with temperature and intensity. |
| **Impact:** *Consider how you can incorporate elements of the papers’ knowledge and contribution into your design*  Carefully place lights that benefit growth and flavour of plants. Adjust perfect wavelengths, intensity and distribution of space. Maybe use multiple lights for single plants to have different effects. Which light is most useful for which plant? Orientation? Strength? Distance? Space? Etc. |
| **Actions:**   1. Read more journals about LEDs or lightings in vertical green houses and find more proof 2. Start looking at how different wavelengths affect the plants/ crops we need 3. Look at Technological improvements that have already been researched and apply it.   …. |

Include this completed worksheet in your Assignment 1 report appendix.