Overview: While determining where to place the cells in your redesign of the lab, it is important to remember that cells go through mitosis (splitting) at different rates. Once you have calculated the amount of cells each type will have two weeks, make sure you implement the amount of space needed in the design of your lab. (For example: the type of cell that has the most cells after two weeks would need the most space in your lab!)

Cell Growth Rate (Per 6 hours)

Skin Brain White Blood Cancer Onion Leaf Lung Cancer Cheek

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Beginning Cells | 10 | 5 | 3 | 4 | 20 | 8 | 2 | 3 |
| Growth Rate | Squares every 6 hours | Doubles every six hours | Triples every six hours. | Triples every six hours. | Doubles every six hours. | Doubles every six hours. | Cubes (for example 23) every six hours | Squares every six hours |
| After 6 hours |  |  |  |  |  |  |  |  |
| After 1 day |  |  |  |  |  |  |  |  |
| After 1 week |  |  |  |  |  |  |  |  |
| After 2 weeks |  |  |  |  |  |  |  |  |