Goals for this experiment

●**Question**

● Can particle scattering allow us to differentiate  between bacteria?

●**Hypothesis**

● We believe that particle scattering is a building block that can lead us to differentiating between different substrates (particle scattering itself cannot allow us to separate living and nonliving things, but it is a stepping stone into that direction. Further addition in areas such as bioluminescence for example, can perhaps lead to a discovery of identifying pathogenic materials that may be around us.)

● **Prediction**

●  If particle scattering can differentiate particle shapes and sizes of inanimate objects, then it should be a practical method in differentiating living organisms