Why Do Cells Stay Small Student Sheet 

Brainstorm ideas that could explain why cells have a tendency to stay small.

How might the process of diffusion might be an important factor in limiting cell size.

Predict what will happen when the gelatin cell models are placed in vinegar.

Observations and data collection for gelatin cubes in vinegar:

.5 cm cube **Observations:** **Time Required to Feed Entire Cell:**	**1 cm cube** **Observations:** **Time Required to Feed Entire Cell:**

After observing your cell models, collecting data, and researching about cell size, explain why cells tend to stay small.

Our calculation of the surface area and volume of our 3 cubes. **Surface area = $6a^2$ Volume = a^3**

.5 cm cube	**1 cm cube**	**1.5 cm cube**
Surface area:	Surface area:	Surface area:
Volume:	Volume:	Volume:

The gelatin cell models that we made today are limited in terms of how they represent real cells and actual systems. Discuss at least 2 ways that gelatin cell models are lacking in the way they represent real cells.