**FASTly**
FAITH & SCIENCE TEACHING

### Golgi Apparatus:

**Job:** take all proteins from food vesicle and wrap them in plastic wrap for transport. Give to secretion vesicle when finished.

**Energy!!!**

### Secretion Vesicle

**Job:** carry packaged proteins from G.A. to the plasma membrane, join with the membrane and dump the protein into the bloodstream (teacher).

**Energy!!!**

### DNA

**Job:** Hold on to blueprints for making proteins. Show instructions to RNA for copying one card at a time.

**Energy!!!**

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**Chloroplasts**

**Job:** when light is shone on you, obtain candy packages and give one at a time to Mitochondria.

**Energy!!!**

**Plasma Membrane**

**Job:** regulate the intake and outtake of the cell by fusing (joining hands) with various vesicles (active transport).

**Energy!!!**

**Chloroplasts**

**Job:** when light is shone on you, obtain candy packages and give one at a time to Mitochondria.

**Energy!!!**

**Plasma Membrane**

**Job:** regulate the intake and outtake of the cell by fusing (joining hands) with various vesicles (active transport).

**Energy!!!**

**Lysosome**

**Job:** Fuse with food-filled vesicles (join hands) and chop up food with your enzymes (knives).

**Energy!!!**

**Food Vesicle**

**Job:** Fuse with plasma membrane when food arrives (join hands), take food from plasma membrane and enter into cell (endocytosis).
**Energy!!!**

**Mitochondria**

**Job:** Take sugars from chloroplasts (candy packs) and convert into ATP (individual candies). Supply ATP to other parts as needed.

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### RNA

**Job:** copy blueprints from DNA. Leave nucleus and show blueprint to ribosome on ER.

**Energy!!!**

### Ribosome

**Job:** read blueprint from RNA and find proper amino acid (fruit piece). Give amino acid to ER for placement onto kabob stick.

**Energy!!!**

### Endoplasmic Reticulum

**Job:** take amino acids from ribosome and place on kabob stick. When protein is finished, hand off to food vesicle.

**Energy!!!**

### Cell Vesicle

**Job:** take proteins from ER and deliver to Golgi Apparatus.

**Energy!!!**