Most cells have these parts

**Vesicles** (#9 for all cell type models)
- Small containers that carry materials between cell compartments and out of the cell

**Cell membrane**
- Protective barrier around the outside of the cell
- Controls what molecules get in and out
- Helps cells communicate with each other

**Nucleus**
- Stores genetic information in the form of long, stringy DNA molecules
- This is where genes are copied to make messages (not shown in the model)

**Cytoskeleton**
- Long fibers that give a cell shape and structure
- Keeps organelles in place

**Mitochondria**
- Kidney-shaped with two layers of membrane
- Break down molecules to get energy for the cell

---

© 2019 University of Utah

---

Most cells have these parts

**Vesicles** (#9 for all cell type models)
- Small containers that carry materials between cell compartments and out of the cell

**Cell membrane**
- Protective barrier around the outside of the cell
- Controls what molecules get in and out
- Helps cells communicate with each other

**Nucleus**
- Stores genetic information in the form of long, stringy DNA molecules
- This is where genes are copied to make messages (not shown in the model)

**Cytoskeleton**
- Long fibers that give a cell shape and structure
- Keeps organelles in place

**Mitochondria**
- Kidney-shaped with two layers of membrane
- Break down molecules to get energy for the cell

---

© 2019 University of Utah