**Toy Factory Unit**

**Electricity**

1. **Electricity-**A form of energy produced by the movement of electrons. It can be used to make **heat, light** and can **power machines.**
2. **Battery-** A source of electrical energy. A device that converts chemical energy to electrical energy.
3. **Conductor**- A material that allows electrical current to flow through it.
	1. Metals like copper, aluminum, gold and silver are good conductors.
4. **Insulator**- Insulators are **opposite** of conductors. A material that electric charges do not flow through easily.
	1. Wood, air, rubber, and glass are insulators.

**5. Diagram**- A picture that shows how something works – an explanatory drawing or plan.

1. **Parallel Circuit-** A kind of circuit in which there is more than on path an electric current can flow through.
2. **Series Circuit:** A kind of circuit in which there is only one path that an electric current can flow through.
3. **Electric Current-** The flow of electricity through a conductor from one place to another.
4. **Switch-**A device that opens or closes a circuit. This prevents or allows a current to flow.

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| **Static Electricity** | **Current Electricity** |
| * a **build up** of electrons
 | * the **steady flow of electrons** between objects or places.
 |
| * stays in one place until it jumps to an object
 | * needs a [**conductor**](http://idahoptv.org/dialogue4kids/season6/electricity/glossary.cfm#conductor), a material that allows electrons to move easily through it
 |
| * does not need a [**circuit**](http://idahoptv.org/dialogue4kids/season6/electricity/glossary.cfm#circuit)
 | * needs a closed [**circuit**](http://idahoptv.org/dialogue4kids/season6/electricity/glossary.cfm#circuit) to flow
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| * the kind of electricity you feel after you drag your feet across a carpet and touch someone or something
 | * the kind of electricity that powers the appliances and heat in your home
 |
| * lightning is static electricity on a more spectacular scale
 | * the kind of electricity in a [**battery**](http://idahoptv.org/dialogue4kids/season6/electricity/generator.cfm#batteries)
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Example of a insulator and conductor in a chord. 

**Diagram of Electrical Circuit**



