

**Part E: How a Wire Works**

<b>Conductor</b>  A <i>conductor</i> is any material that allows electrical current to flow. Conductors are usually made of <i>metal</i> .	<b>Examples:</b>  Copper wire Steel Iron
<b>Insulator</b>  An <i>insulator</i> is any device that does not allow electrical current to flow. Conductors are usually not made of metal.	<b>Examples:</b>  Rubber Piece of paper Cloth Glass

For each item **E.1 – E.8**, say if it is a conductor or an insulator:

**E.1** a rubber glove

**E.2** a paper clip

**E.3** a stainless steel fork

**E.4** a sweater

**E.5** a copper penny

**E.6** a glass window

**E.7** something that allows electricity to flow

**E.8** something that stops electricity from flowing

**E.9** Explain the difference between an insulator and a conductor.

**Answers:**

**E.1** insulator

**E.2** conductor

**E.3** conductor

**E.4** insulator

**E.5** conductor

**E.6** insulator

**E.7** insulator

**E.8** conductor

**E.9** current can flow through an insulator but not a conductor.