

Name: _____ Date: _____

Use the words in the word bank to complete these sentences about conductors and insulators.



Some materials are insulators. This means they _____ let electricity pass through them. Some materials are _____ which means they do let electricity pass through them. _____ appliances often have an insulator, such as _____, on the outside of the appliance so that it is _____ to hold or _____. The conductors that make the _____ work, such as the wires, are on the _____ of the appliance.

conductors
plastic

Electrical
don't

safe
inside

circuit
touch



Can you draw three electrical appliances that have insulators on the outside and conductors on the inside?

Name: _____ Date: _____

Choose one of the appliances in the list below and draw a diagram of it to show how it has insulators on the outside and conductors on the inside. Label your diagram.



hair dryer
TV

electric fan
computer

lamp
telephone

Diagram:



Describe why appliances have insulators on the outside and conductors on the inside. Use as much detail as you can.

Name: _____ Date: _____



Draw a diagram for each of the appliances listed below showing how it has insulators on the outside and conductors on the inside of the appliance. Annotate your diagrams.

Lamp:

Hair dryer:

Computer:

Describe why appliances have insulators on the outside and conductors on the inside. Use as much detail as you can.


