

Transistors

Name: _____

Draw the Symbol for a standard NPN transistor big in the box and label the 3 legs:

Symbol:

Leg Name

Leg Name

Leg Name

A transistor works like an amplifier, what does this mean? _____

A transistor can be used to control outputs, explain HOW? _____

What is meant by THRESHOLD VOLTAGE and what voltage is it for a single transistor? _____

_____ V

We *always* put a resistor on the middle leg, explain WHY: _____

Draw the circuit Symbol for a Darlington Pair: (2 transistors combined)

Symbol:

Explain what difference it makes to use a Darlington Pair instead of a single transistor: _____

Explain when a Darlington Pair might be useful: _____

Write down any disadvantages to using a Darlington Pair if a single transistor would do the job: _____
