



What is this component? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____

You also must know how to read them:

How to find the value of a resistor: Turn it so the gold band is last, & find the resistor decoding info. on your equation sheet
 The 1st band color gives you the **1st digit**. Write down that digit.
 The 2nd band color gives you the **2nd digit**. Write down that digit.
 The 3rd band tells you what to multiply those 2 digits by, so go over to the **multiplier** column.
 The 4th band is the **tolerance**, or how accurate it is. Most of our resistors will have gold as their last band meaning the actual value of it is $\pm 5\%$ of what you found its value to be.
Example 1 Let's say you have a resistor that is yellow, red, brown, gold.
 This tells you that it's value is 4 2 x 10 = 420 Ω $\pm 5\%$
Example 2 If you need a resistor that has a value of 530,000 Ω $\pm 5\%$, the colors it would be are green (for the 5), orange (for the 3), then yellow (because you need to multiply the 53 by 10,000), then gold (for the $\pm 5\%$).

So if you had a resistor that was purple, white, red, gold, what would its value be? _____
 If you need to find a 60K resistor which is 60,000 Ω + 5%, what color stripes would it have?
 _____, _____, _____, _____



What is this component? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____



What is this component? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____



What is this component? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____



What is the short name for this component? _____ What does it stand for? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____



What is this component? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____



What is this component? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____



What is this component? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____

You also must know how to read them:

How to find the value of a resistor: Turn it so the gold band is last, & find the resistor decoding info. on your equation sheet
 The 1st band color gives you the **1st digit**. Write down that digit.
 The 2nd band color gives you the **2nd digit**. Write down that digit.
 The 3rd band tells you what to multiply those 2 digits by, so go over to the **multiplier** column.
 The 4th band is the **tolerance**, or how accurate it is. Most of our resistors will have gold as their last band meaning the actual value of it is $\pm 5\%$ of what you found its value to be.
Example 1 Let's say you have a resistor that is yellow, red, brown, gold.
 This tells you that it's value is 4 2 x 10 = 420 Ω $\pm 5\%$
Example 2 If you need a resistor that has a value of 530,000 Ω $\pm 5\%$, the colors it would be are green (for the 5), orange (for the 3), then yellow (because you need to multiply the 53 by 10,000), then gold (for the $\pm 5\%$).

So if you had a resistor that was purple, white, red, gold, what would its value be? _____
 If you need to find a 60K resistor which is 60,000 Ω + 5%, what color stripes would it have?
 _____, _____, _____, _____



What is this component? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____



What is this component? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____



What is this component? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____



What is the short name for this component? _____ What does it stand for? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____



What is this component? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____



What is this component? _____
 What does this component do in a circuit? _____
 Does the polarity of this component matter? yes / no If yes, which side is negative? _____