Warning: Do not expect to save on this page. “Save As” to another location first.

| Blinky Light Genius Worksheet  It is time to start making circuits. For each line below, draw a schematic diagram using the correct symbols. Make a circuit for each of the specifications listed below. Be sure to date your experiment and describe what occurred (scientific process). Have your instructor check each one before you move on to the next. There are extra spaces for the circuits your instructor will assign in class as time permits. | Notepad and pen design |
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| Name: |  |

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| --- | --- | --- |
| RB | Circuit | **Circuit Drawn** |
|  | Read p. 5-8a | N/A |
|  | Activity #1 Single LED Circuit |  |
|  | Read Lesson #1 | N/A |
|  | Activity #2 Double LED Parallel Circuit + Read “What’s Happening” |  |
|  | Activity #3 Double LED Series Circuit + Read “What’s Happening” |  |
|  | Activity #4 Three LED Mixed Series Er Parallel Circuit + Read “What’s Happening” |  |
|  | Read p. 8b | N/A |
|  | Activity #5 Transistor Switch Circuit + Read “What’s Happening” |  |
|  | Read Lesson #2 Transistors (p. 32 & 33) | N/A |
|  | Activity #6 Transistor Touch Switch Circuit + Read “What’s Happening” | N/A |
|  | Activity #7 Delayed Turn-Off Transistor Switch Circuit + Read “What’s Happening” |  |
|  | Read Lesson #3 Capacitors (p. 40-41) | N/A |
|  | Activity #8 Double Flashing Circuit (Blinky Lights) + Read “What’s Happening” |  |
|  | You may do # 9 and 10 for fun if done early. |  |
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|  |  |  |
|  | Now, on your own without a manual: |  |
|  | Sounding buzzer |  |
|  | Sounding buzzer with switch |  |
|  | Motor turns when switch button is pressed |  |
|  | Circuit with phototransistor |  |
|  |  |  |