C2

The AX-microBIT+ Board

CHAPTER ASSIGNMENT

Name _____ Class _____ No. _____ Date _____

Answer every question in the space given. Show your working. You may use the chapter page to help you.

Questions from the Guru Jazzy micro:bit chapter page.

Lab and activity

Lab 2.1 Set up the board

1. Push the Micro:bit firmly into the 80-pin socket with the **LEDs facing up**. The kit's adapter board lets it stand upright or lie flat.
2. Choose **one** power source from the table below.
3. Check that the **ON** LED lights.

Power source	How it reaches the board
USB on the Micro:bit, from a computer, power bank or USB charger	5 V enters the Micro:bit, which makes 3.3 V and passes it to the activity board.
+5 V adapter in the barrel jack	The activity board makes 3.3 V. A diode stops power flowing backwards, which leaves about 3 V for the circuit.

Activity Board treasure hunt

1. With your partner, find each part from the diagram on a real board.
2. Find where the P0 jumper is, and move it to PIEZO.
3. Say which connector you would use for: a light sensor, a servo, a crocodile clip, a wire to a breadboard.

Check yourself

1. Which way up does the Micro:bit go in the AX-microBIT+?
   A) LED display facing up B) LED display facing down C) Either way
   D) It plugs in sideways only

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2. P0 should play sound through the piezo speaker. Where do you set the jumper?
   A) Port0 B) PIEZO C) GND D) It needs no jumper

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3. Which pin is connected to the knob on the board?
   A) P0 B) P1 C) P2 D) P16

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4. Which two pins drive the servo connectors?
   A) P0 and P1 B) P8 and P12 C) P5 and P11 D) SDA and SCL

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5. What voltage should the adapter supply to the barrel jack?
   A) +3 V B) +5 V C) +9 V D) +12 V

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6. Why does the board repeat the 4 mm holes?
   A) The socket hides the Micro:bit's own holes B) They are stronger
   C) They carry more current D) They are only decoration

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7. You want to wire a pin such as P14 to a breadboard. What do you use?
   A) The JST sockets B) The IDC headers C) The servo connector
   D) The adapter jack

End of assignment · Check your answers against the chapter at gurujazzy.com/subjects/microbit/chapter-2-ax-microbit-board/