

## CODING CHALLENGES

**CHANGE THE TIME LIMIT:** Changing the time limit variable will change the difficulty of the game.

**CHANGE THE WORDS IN THE WORD LIST:** Try changing the categories and words. The number of words in your words array must match the value of the variable `arraySize`.

**CHANGE THE WINNING AND LOSING SONGS:** By changing the tones in the `winner()` and `gameover()` functions you can change which song plays at the end of the game.

## TROUBLESHOOTING

**The screen is blank or flickering**

Adjust the contrast by twisting the potentiometer. If it's incorrectly adjusted, you won't be able to read the text. Also, check the potentiometer to make sure it's connected correctly.

**No sound is coming from the buzzer**

Check the wiring to the buzzer and the polarity. Make sure you are using the correct pin as defined in your code. You may add a potentiometer volume knob if you desire.

**The button doesn't work or words are getting skipped before they are guessed**

If the button isn't working, check your wiring. If words are being skipped when the button is pressed, increase the debounce delay found at the end of the loop. It should be 500 milliseconds by default. Increasing this number by tiny increments will help with this problem.

You've completed  
Circuit 4C!

Continue to Project 5 to learn how to build your first robot!

LCD "HELLO, WORLD"

TEMPERATURE SENSOR

"DIY WHO AM I?" GAME

