Reaction Time! Activity Guide

Mission 3: Synaptic Sparks, Objective 6

Name:

The activity for this objective is to complete tasks that test your memory, task completion speed and reaction time. View your results, and then see the results of five different scenarios. Reflect on how each simulated state may impact your daily life, from sports to driving, school work to daily chores, and more.

Students can work individually or with a partner for this activity.

1. The program imports a file that has been loaded into your file system. You must open and run the file to load it onto the CodeX. > DO THIS: Go to ***File → Browse Files...*** and open the **reactions.py** file. > Run the file.	☐ File opened ☐ Run the file to load it on CodeX
2. Start a new file and call it **reaction_time**	☐ File created
3. Copy and paste the code from CodeSpace into the file.	☐ Code copied and pasted
4. Follow CodeTrek to: • Call the functions that display instructions and run the two tests. • Call the function that displays the results **NOTE:** *When adding code, be very careful with the indenting, spelling and punctuation!*	☐ CodeTrek followed
5. Run the code. Complete the tasks that test your memory, speed and reaction time.	☐ Memory and reaction test taken
6. Record your button clicks, speed and reaction time in the chart on the next page.	☐ Your data recorded
7. Click on each scenario. • Use buttons U/D/L/R/A to view the results of each scenario. • The stress scenario may give different results.	☐ View each of the 5 scenarios at least once
8. Record the clicks, speed and reaction time for each scenario in the chart on the next page.	☐ Scenario data recorded
9. If you are working with a partner, repeat the tests and scenarios for your partner. If you are working alone, repeat the tests and scenarios yourself.	☐ Tests repeated
10. Repeat the tests as many times as you want to. Then press Button B to quit the program.	☐ End the program (BTN_B)

Use the chart on the next page to record the data for the tests and scenarios.

Brain Chemistry Tests #1

	My data	Scenario #1	Scenario #2	Scenario #3	Scenario #4	Scenario #5
Button clicks						
Memory speed						
Reaction time						

Brain Chemistry Tests #2

	My data	Scenario #1	Scenario #2	Scenario #3	Scenario #4	Scenario #5
Button clicks						
Memory speed						
Reaction time						

11. Use graph paper to create a graph of the data.

12. Write a reflection of this activity. What are your thoughts?