



CONCORD REGIONAL
TECHNICAL CENTER

2017 - 2018

Q3 SPUR

By: Ethan Konrad

Q3 COMPETENCY

Competency 4: Understand the basic common algorithms of computer science to show how they affect ways to solve mathematical or programming problems.

Required Learning:

- 26. Write programs that sort data
- 27. Write programs that search data.
- 28. Write programs to solve mathematical problems through numerical analysis concepts.
- 29. Demonstrate and write programs that simulate physical processes (i.e.: force, geometry, physics, projectile motion)
- 30. Demonstrate general problem solving techniques to solve a variety of computational problems.

In the space below, summarize the units, projects, and/or activities that you've participated in this quarter that you think have met all or most of these learning targets.

I think the biggest project I participated in this quarter that meets this competency is our Python game. It really shows my understanding of collecting, sorting, and manipulating data to accomplish a task.

Q3 COMPETENCY

Mastery Level: 1 1.5 2 2.5 3 3.5 4

Competency 4: Understand the basic common algorithms of computer science to show how they affect ways to solve mathematical or programming problems.

In the space below, write a brief self-evaluation summary that justifies your mastery level 'score' for Competency #4. Please focus on all attributes.

I think I can come up with solutions to any issue that is encountered while programming. While I may not always know how to accomplish it syntax wise I can still come up with the basis of how it works so I can find someone who can turn it in to code.

Provide at two evidence links (to documents or screenshots) for **Competency 4** here.

- <https://repl.it/@xegion/Word-Scrambler>
- <https://repl.it/@xegion/Factor-Calculator>

Q3 COMPETENCY

Competency 5: Understand the basic concepts of computer networks and security to reinforce knowledge of ethical computing.

Required Learning:

31. Discuss computer security and its relationship to the computer programmer.
32. Explain and demonstrate principles of computer networks.(i.e.: client-server, web server, peer to peer)
33. Discuss the ethical issues involved in computer programming.
34. Discuss computer hacking and cracking and how it relates to the computer programmer.

In the space below, summarize the units, projects, and/or activities that you've participated in this quarter that you think have met all or most of these learning targets.

In all the Kahoots and quizizzs we played that were based around this competency I always was in the top 5 or won.

Q3 COMPETENCY

Mastery Level: 1 1.5 2 2.5 3 **3.5** 4

Competency 5: Understand the basic concepts of computer networks and security to reinforce knowledge of ethical computing.

In the space below, write a brief self-evaluation summary that justifies your mastery level 'score' for Competency #5. Please focus on all attributes.

I already a chunk of the info within this competency going in and I knew a large majority of the info by the end. I was also always one of the top scorers when we did things like kahoot and quizizz. I feel like I learned almost everything but there are still a few things I don't know.

Provide at two evidence links (to documents or screenshots) for **Competency 5** here.

- <https://drive.google.com/open?id=1kUNcbW2v4a9HH8hcazkW4iESxp0Pk-8M>
- <https://drive.google.com/open?id=102X1slglaHHUBFeXIO-JxTiOQybGuSfg>

Q3 COMPETENCY

Mastery Level: 1 1.5 2 2.5 3 3.5 4

Competency 7: Understand the importance of personal growth and leadership to enhance college and career success.

39. Demonstrate personal growth, community leadership, democratic principles and social responsibility by participating in activities/events offered through student organizations. (You may reference field trips & class speakers.)

ALSO:

Complete a Job-Shadow in a related field AND attend at least one college with CS programs and write a detailed reflection

OR

Complete a research project on a related career topic that references current or future opportunities & its education requirements

In the space below, summarize the units, projects, and/or activities that you've participated in this quarter that you think have met all or most of these learning targets.

I've gone on all the field trips this quarter and made sure I've participated.

I've also done a lot of research into creating virtual assistant AI's and the work the developers have to put in.

Q3 COMPETENCY

Mastery Level: 1 1.5 2 2.5 3 **3.5** 4

Competency 7: Understand the importance of personal growth and leadership to enhance college and career success.

In the space below, write a brief self-evaluation summary that justifies your mastery level 'score' for Competency #7. Please focus on all attributes.

I went on all the fieldtrips we had this quarter and made sure to participate and ask questions. I don't know if this quite fits but I also looked around MCC during Cyber-security day to get a feel for it. I was always very attentive and interested in what was presented to us.

Provide at two evidence links (to documents or screenshots) for Competency 7 here.

- https://drive.google.com/open?id=1-pHXZSIO3Nt2csIV5TXvFnH_FUJ1NmHA
- https://drive.google.com/open?id=1LQiXBCLZ0ev_WELWwYY6KIVN8jrgriNs

Goal Setting - Development of Quarterly SMART goals

- Identifying specific short-term target goals
- Monitoring/Measuring progress toward the goals
- Documentation of steps taken toward the goals
- Regularly Reflect upon its relevance toward meeting CTE competencies
- Define new and/or revise previous goals quarterly

Write a brief self-evaluation that speaks to the Q3 Goals you set for yourself. Did you meet them? How? Or Why not?

Turn in work on time: I think I did a lot better and got a lot more of my work in on time but not all of it.

Know when CRTC work is due: I always knew when they work was due just didn't always get it finished.

Provide at least two goals to work on during Q4 here.

- Turn in ALL work on time
- Learn something new

[LINK](#) to original rubric in .pdf
There's also a copy posted on
the About tab in Classroom

"BE PREPARED TO STAND OUT"

COLLABORATION

the act of expanding on both team and individual work to produce and create the best possible outcome.

- I go "all out" and fully commit to my team, producing the highest quality output on time.
- I skillfully advocate and compromise, and help others to do the same, to create successful team strategies.
- I strive to bring out the best in all team members.
- I justify my own ideas, and consider the ideas of others in an open and unbiased manner.
- I actively speak, listen and contribute to all team processes including decision making and task completion.
- I fully participate and encourage others.
- I am receptive and positive towards any person I work with, and any role I take on.
- I support the group including the work and efforts of others.
- I respectfully consider other people's ideas and opinions and am willing to compromise.
- I complete my fair share of the team's work in a timely manner.
- I show basic respect for members of my team.
- I put forth my best possible effort for the group.
- I strive to understand exactly what is expected of me, and if needed accept support to help me to do so.

INVENTIVENESS

the act of discovering new possibilities and solving problems through a mix of being imaginative, diagnosing in a logical manner, researching alternatives, and using creative and critical thinking.

- I incorporate original ideas into the process of meeting a variety of diverse challenges.
- I find innovative and workable solutions to everyday (and not so everyday) problems.
- I integrate industry best practices into everything I do.
- I embrace adjusting my approach based on the results of my efforts, and then trying again in order to improve.
- I evaluate and utilize diverse and credible resources.
- I problem-solve by researching and applying industry best practices.
- I use prior knowledge to logically diagnose and solve problems.
- I am beginning to apply theory knowledge to my work.
- I am aware of, and beginning to apply, industry best practices.
- I recognize when a problem exists and try to break it down.
- I brainstorm possible solutions.
- I work to solve problems, and if needed accept support to help me to do so.

COMMUNICATION

the act of sharing and processing ideas through a variety of methods, including reading, writing, listening, speaking, drawing and body language.

- I comfortably and effectively communicate complex, industry-based technical ideas and processes using a variety of methods.
- I skillfully engage and connect with others using my own effective communication style.
- I adjust the timing and tone of my communication to meet the needs of my audience.
- I select effective communication methods based on the situation.
- I communicate industry-based technical ideas and processes.
- I utilize numerous communication methods effectively and appropriately.
- I choose words, volume, tone and body language in an appropriate and professional manner.
- I use program specific technical vocabulary.
- I express a basic understanding of the information I take in.
- I share necessary information via various communication methods.

SELF-DIRECTION

the act of reflecting on, regulating and adapting behavior to the demands of a situation in order to achieve goals and values.

- I pursue college and career opportunities beyond common student expectations.
- I desire and demonstrate continuous improvement throughout all my efforts.
- I engage in self-reflection to adjust and adapt strategies.
- I manage my time and resources to create exceptional quality work.
- I demonstrate an incredible work ethic.
- I leave my comfort zone to pursue long/short-term goals.
- I put equal effort towards succeeding in both the theory and practice aspects of my program.
- I provide constructive feedback to others.
- I do extra practice and seek quality feedback to strive for excellence.
- I have a vision for my future and am working to achieve it.
- I develop long/short term goals.
- I complete and turn in my required work on time.
- I act maturely and advocate for myself in a respectful and professional manner.
- I begin my work without being prompted.
- I use feedback from others to improve my work.
- I put in extra time and effort to improve.
- I manage my emotions in different situations.
- I follow program rules and expectations, including proper attire and language.
- I am on time and where I am supposed to be.
- I demonstrate respect and care when interacting with customers, clients and guests.

Professional Skills: Rate yourself in each category according to how well you think you've met the rubric expectations. Then add a brief explanation for your rating.

Collaboration

1 2 3 4

Explain: I worked well and efficiently with my partners. I made sure we stayed on topic and got the work done on time.

Communication 1 2 3 4

Explain: I was very communicative with my partners. I made sure we all knew what we were doing and understood it.

Inventiveness 1 2 3 4

Explain: I kept all my work original and unique.

Self-Direction 1 2 3 4

Explain: I was a lot better about turning in work on time.

Q&A - Input is appreciated, but not required

What questions do you have for me?

- Do you like pie

What can I do to improve?

- Take less time at the beginning of class

What can you do to help yourself, me, or your peers improve?

- Eat pie

In addition to the Friends Program project, what do you want to explore during Q4?

- PHP and MYSQL