VEX IQ Autonomous Challenge
Hub – a Bub – Ba

Rules/Scoring

30 seconds of Autonomous/30 Seconds of Driver control

Start **anywhere** across the back row as long as you touch the court walls.

Can modify your robot

Floor Area Points

Orange Hubs	1 point in floor score area
Yellow Hubs	2 points in floor score area
Stacked	2x points

Posts Points

Orange Hubs	2 points
Yellow Hubs*	4 points
Stacked	2x points

Centre Field Post

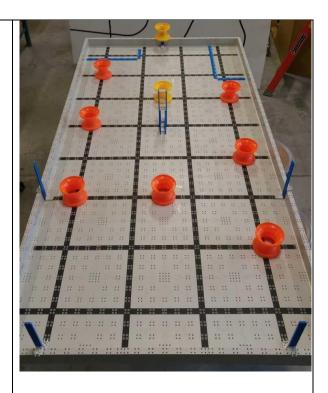|	
Orange Hubs	3 points
Yellow Hubs*	6 points
Stacked	3x points

Special Points

Yellow off of Post*	5 points

*The yellow hub on the back post cannot be pulled off and put directly back on the same post….

Overall Score

Autonomous (50%) + Driver (50%) = Final Score

VexIQ Robotics Hub Challenge Rubric
Student Assessment

Name: _____   **Date: _____**

As a Team Member &Individual				
Active and Engaged Learner (General Participation) **4 Marks**	Poor I do not participate and rarely shares ideas. I rarely stays on task and don't complete the work.	Fair I sometimes participate and shares ideas. I need reminders to stay on task and to complete work.	Good I participate and shares ideas. Most of the time I am on task and complete the work.	Excellent I share my ideas and participate often. I am always on task and I always complete work.
Cooperative Team Member **4 Marks**	Poor I rarely shares in group tasks or the use of the Robot & Coding. I do none of the work I do all of the work.	Fair I sometimes share in group tasks and the use of the Robot & Coding. I do some of the work or sometimes aggressively do all of the work.	Good I usually share in group tasks and the use of the Robot & Coding. I do my fair share of the group tasks. I sometimes help my team member(s) learn if they don't get it.	Excellent I always shares in group tasks and the use of the Robot & Coding. I always cooperate and show leadership by helping my team member(s) through teaching rather than doing their work for them.
REACH Principles **4 Marks**	Poor I demonstrate poor **R**espect, **E**nthusiasm, **A**chievement, **C**itizenship and **H**ard Work. I never take leadership or helps others.	Fair I demonstrate fair **R**espect, **E**nthusiasm, **A**chievement, **C**itizenship and **H**ard Work. I rarely take leadership and seldom helps others.	Good I demonstrate good **R**espect, **E**nthusiasm, **A**chievement, **C**itizenship and **H**ard Work. I take leadership and sometimes helps others.	Excellent I demonstrate excellent **R**espect, **E**nthusiasm, **A**chievement, **C**itizenship and **H**ard Work . I take leadership and consistently helps others.
Coding the robot **4 Marks**	Poor I did not use the computer to code and I cannot program the robot at this time. I sat and watched the Coding of the robot.	Fair I used the software and/or shared the responsibility to code, however I let the other person do most of it. I would need help to code the robot successfully at this time.	Good I coded the robot and understood the basic movements I could successfully and accurately navigate a course if asked.	Excellent I could easily code the robot and successfully navigate a course. I have gone past what I was asked to do by learning on my own (sensors), and trying other coding.
Robot Performance				
Autonomous Challenge **16 marks**	Poor The robot scored between 0 and 2 points	Fair The robot scored between 3 – 5 points	Good The robot scored between 6 and 10 points	Excellent The robot scored over 10 points
Driver Challenge **16 marks**	Poor The robot scored between 0 and 10 points	Fair The robot scored between 10 and 20 points	Good The robot scored between 20 and 40 points	Excellent The robot scored over 40 points