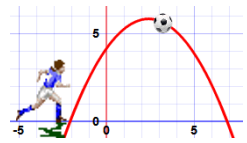




Ozobot Quadratics Project – Major Grade



Your Name _____

Group Member Name(s) _____

Your equation: _____

Objective: You will create a poster on grid paper of a quadratic equation coded for Ozobot to travel. You will use your knowledge of Quadratics to identify and code the following attributes of a quadratic function:

1. You will pick one set of reflected points that Ozobot will change his speed at. Make the first one a slower code so he does not mess up the rest of your coding.
2. At the solution point(s) he will perform a tornado.
3. At the vertex he will need to flash red (you will need to make this about an inch long).

You may include any other code(s) you wish but it must include the ones listed above.

****Remember that we read the graphs from left to right so Ozobot will follow this direction. Pay attention to order of operations in your coding****

Points Scored:

On the poster you need the following items:

Quadratic Function you were assigned (5 points)

Quadratic Function graphed accurately and drawn neatly (20 points)

(minimum of 7 points graphed, appropriate axis scaling, curved at vertex, etc.)

x and y Axis marked, labeled, and scaled **in pencil** (5 points)

Axis of symmetry labeled with equation **in pencil** (5 points)

Table of coordinate points (10 points)

Solutions (both written and graphed) (10 points)

Ozobot Coding (30 points)

(Is it in correct place/accurately execute code, does it work consistently, did it need corrections, etc.)

1. Reflected points where Ozobot changed speed

2. At the solution point(s) he will perform a tornado

3. At the vertex he will need to flash red

Individual Participation in Group (15 points)

Total Score: _____