Name: Date: Period:

Air Rocket Lab -

CALCULATIONS MAKEUP ASSIGNMENT

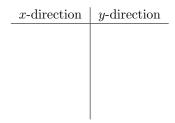
Purpose

Your goal is to predict where your rocket will land if it is launched with an initial velocity of 24 m/s at an angle of 35° .

Calculation

1. Draw a diagram of the motion of the rocket.

2. List all of your known values for this lab. Think about what values you need from your instructor. Make your T-chart below:



3. Solve for how far away your rocket will land. A few hints:

- (a) First, find the x- and y- components of the initial velocity
- (b) Second, you need to know how long it will be in the air
- (c) Finally, you should be able to use these calculations to find the x-displacement.