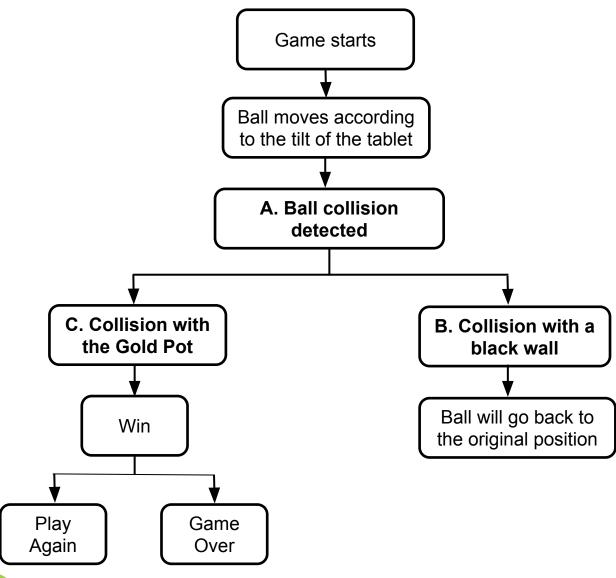
FIND THE GOLD: PART 2

You will now
add Ball movement to your
maze game so the Ball
moves as you tilt the
mobile device

REVIEW

1

Review the diagrams below with your partner. Check that you understand the sequence of steps for the Find the Gold app below.

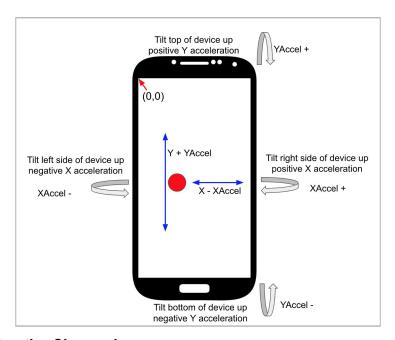




ACCELEROMETER

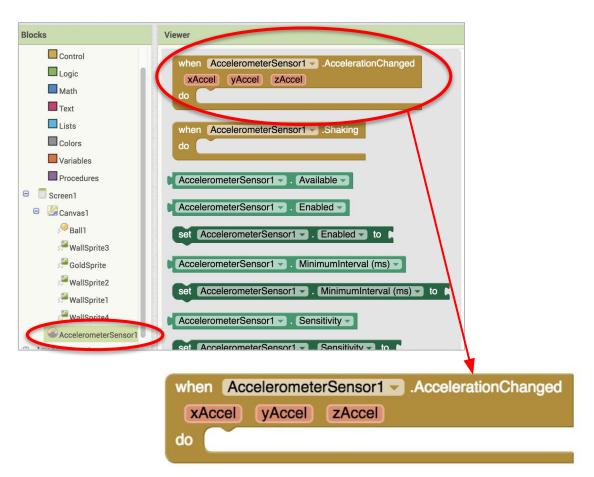
The **Ball** will move as the user tilts the mobile device. Use the

AccelerometerSensor to measure the tilt in the X and Y direction to update the **Ball**'s position.



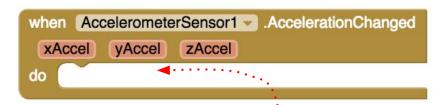
2

Drag out an **Accelerometer1.AccelerationChanged** block.

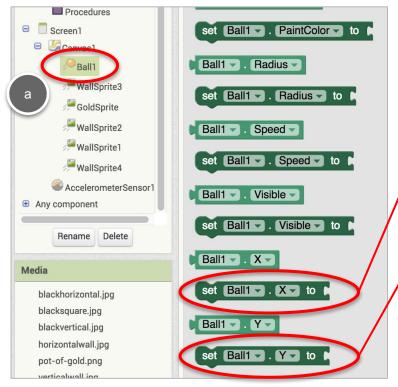


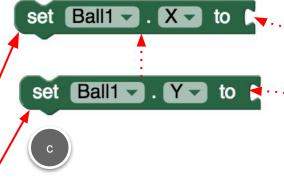


MOVING THE BALL

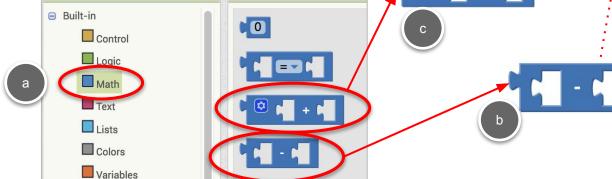


Drag out a **set Ball1.X** block and a **set Ball1.Y** block and snap both into the **Accelerometer1.AccelerationChanged** block.





From the Math drawer, drag out a minus (-) block and snap to the **set Ball1.X**. Drag a plus (+) block and snap to the **set Ball1.Y** block.

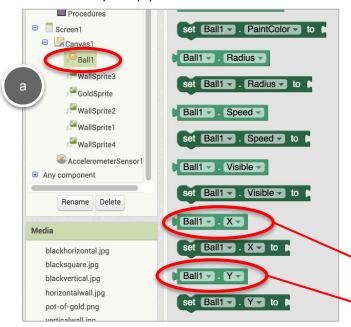


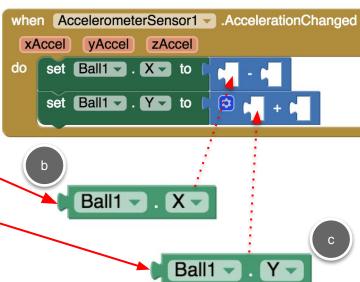


UPDATE BALL X,Y COORDINATES

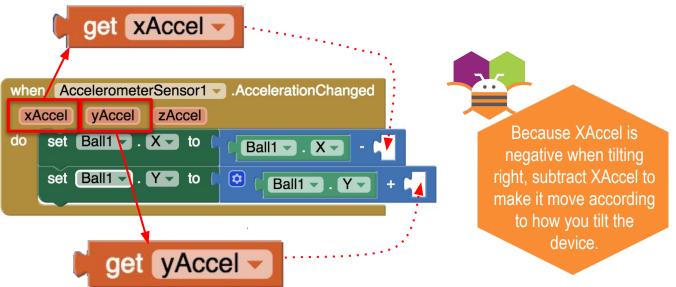
From the **Ball1** drawer, drag out **Ball1.X** and snap to the left side of the minus (-) block. Snap **Ball1.Y** to the left side of the plus (+) block.

Update
the X and Y positions
by adding to or
subtracting from the
current values





Hover over the **xAccel** and **yAccel** input parameters. Snap **get xAccel** to the minus (-) block, and **get yAccel** to the plus (+) block.

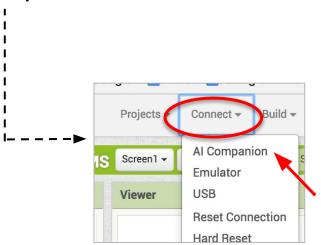




TESTING!



Test the app with the MIT Al2 Companion. Your ball should move according to how you tilt the device!



COMPUTATIONAL THINKING CONCEPTS

The following are the Computational Thinking Concepts learned in Part 2.

