

Secondary Lesson Plan	iPhone Scavenger Relay for Geometry Overview
Grade	10-11
Overview	In this activity, students will team up and use the do.Oh application on an iPhone to complete tasks in a scavenger hunt style. The students will find a task to complete on do.Oh and will complete this task in order to receive the next task. The students will use the task list as a database for tasks. The activities can be exchanged yearly for a different experience. This lesson plan uses geometry but any course could be substituted.
Objectives	During this activity students will be able to: <ul style="list-style-type: none"> • Complete activities that teach the basics of geometry with 100% accuracy. (these are interchangeable) • Learn to work as a team in a high-pressure situation with 90% personal satisfaction.
Standards¹	HS.5.G: Evaluate the efficiency of a team project. (The following are based on the activities used and these follow the example activities in the procedure) G.4.1: Identify and describe triangles that are right, acute, obtuse, scalene, isosceles, equilateral, and equiangular. G.6.1: Define and identify relationships among: radius, diameter, arc, measure of an arc, chord, secant, and tangent. G.8.1 Use a variety of problem-solving strategies, such as drawing a diagram, making a chart, guess-and-check, solving a simpler problem, writing an equation, and working backwards.
Materials	<ul style="list-style-type: none"> • iPhone (1 per team) • wireless access • several do.Oh accounts (1 per activity) • 1 team evaluation form per student • material required for the activities used
Procedure	<ol style="list-style-type: none"> 1. The teacher will begin by creating one do.Oh account for each activity they plan to use. 2. The teacher will then set up the various accounts and activities. 3. The teacher will also set up the do.Oh applications on iPhone. 4. The students will receive the first do.Oh user name and password. 5. The students will log onto the account and receive the information about the first activity. 6. Possible activities include: <ul style="list-style-type: none"> • Students are given the location of several triangles but must find the location which has the isosceles triangle. • Given a circular window, the students must find the radius, diameter, and arc. 7. Once the student completes the activity, they receive a new username and password for the next activity. 8. This continues until all teams are complete. (a special reward can be given to the first team completed)

¹ <http://dc.doe.in.gov/Standards/AcademicStandards/StandardSearch.aspx>

	9. Once completed, the students will complete a survey about the group.
Evaluation	The evaluation will take place at each activity checkpoint. If the group does not complete an assignment correctly, they will not be allowed to advance. This ensures the material review is at 100% accuracy. There is also an evaluation on time. Once the activity is completed, the teams will complete an evaluation form about their teammates that asks to give each student a grade from a 1-5 point scale on how well they worked within the group.