

Conundrum at Crocodile Chasm

Developed/Adapted By

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One sentence description of the assignment or activity

The students (in groups of two) must find the best way to traverse a perilous chasm with a hungry tiger hot on their trail.

Course for which this is used

- PreAlgebra (Math 0950)
- Beginning Algebra (Math 0990)
- Intermediate Algebra (Math 1010)
- College Algebra (Math 1050)

Key topics taught in this activity

Projectile motion, creative problem solving

Prerequisites

Methods for solving quadratic equations, graphing quadratic functions

Lesson Plan – Detailed Description

Students are first divided into groups of two. Then each group completes the assignment sheet which will guide them through the planning and execution of their getaway across Crocodile Chasm.

Activity Grading/Assessment

Students will be graded based on their participation and on the completion of their group's assignment sheet.

Class Time Required

50-60 minutes.

Out-of-Class Time Required

None.

Materials Required

Measuring tape, stop watch, calculator, paper, pencil, assignment sheet

Supplemental Web Resources

<http://www.physicsclassroom.com/class/vectors/u3l2a.cfm>

<http://phet.colorado.edu/en/simulation/projectile-motion>

<http://www.khanacademy.org/science/physics/mechanics/v/projectile-motion--part-1>

<http://www.fearofphysics.com/Proj/proj.html>