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PROJECT FLITE MODULE: GREMLIN MICRO QUAD BASICS



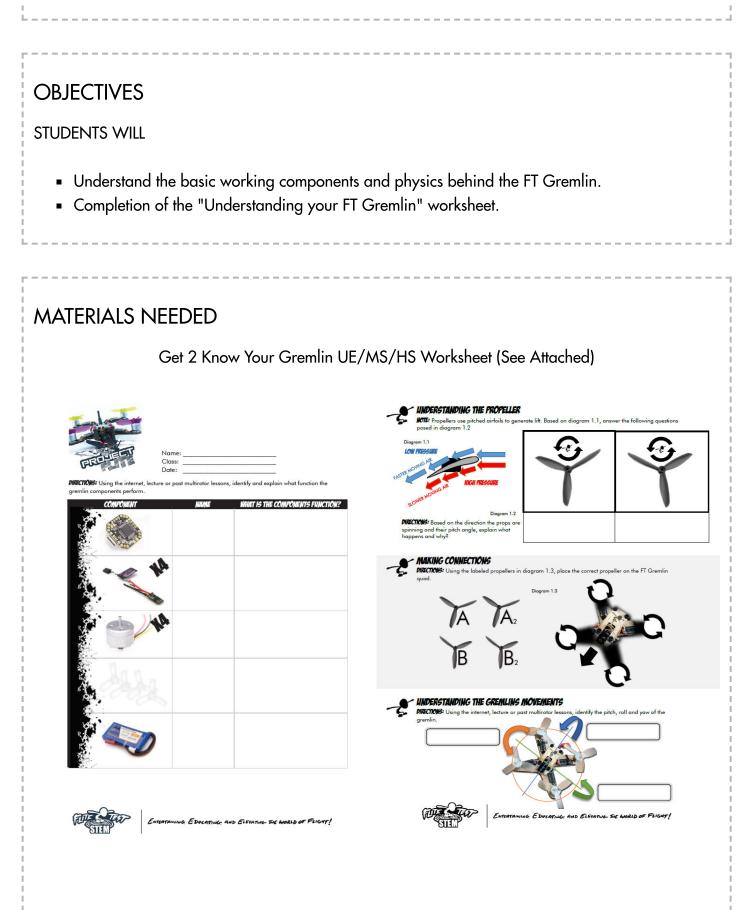
AUTHOR: FLITE TEST STEM LEARNING STRAND: FT WORKBENCH LEVEL: ALL SCHOOL LEVELS LENGTH: 1 HOURS. LESSON FOCUSED ON THE PHYSICS AND COMPONENT PROPERTIES OF THE FT GREMLIN MINI QUADCOPTER. STANDARDS ADDRESSED:



INTERNATIONAL SOCIETY FOR TECHNOLOGY IN EDUCATION STANDARDS TECHNOLOGY OPERATIONS AND CONCEPTS RESEARCH AND INFORMATION LITERACY DIGITAL CITIZENSHIP CRITICAL THINKING AND PROBLEM SOLVING COMMUNICATION AND COLLABORATION NATIONAL CTE STEM CLUSTER STANDARDS HS

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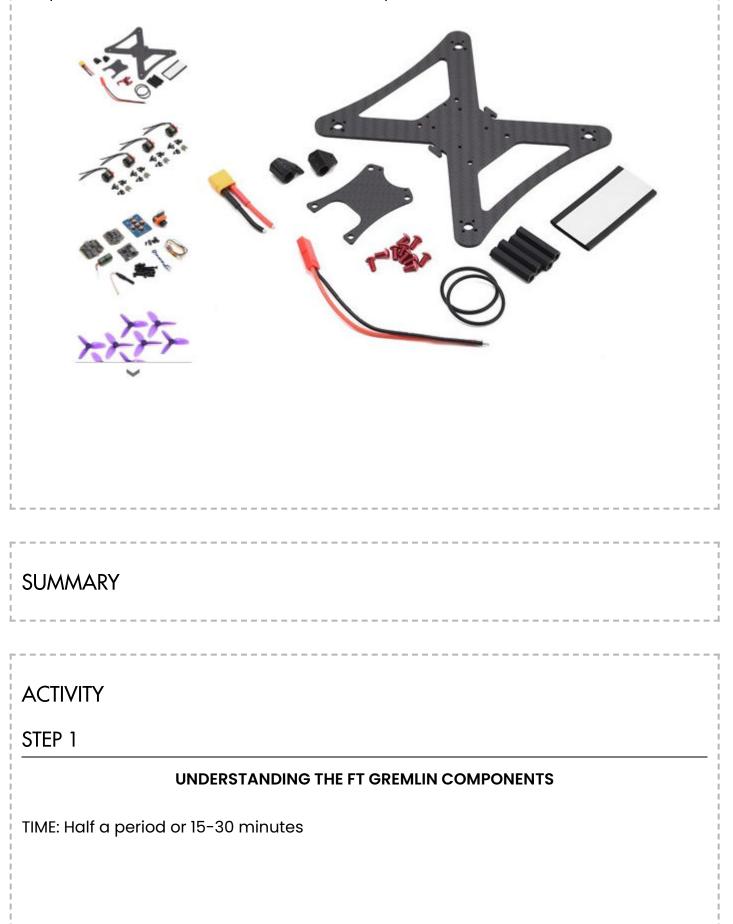
- OBJECTIVES
- MATERIALS NEEDED
- SUMMARY
- ACTIVITY
 - Step 1
 - Step 2



FT Gremlin Power Pack Plus Kit (See Store For Options)

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NOTE: This lesson doesn't require the use of the Power Pack, however, have visuals to make those component connections with the students would be helpful



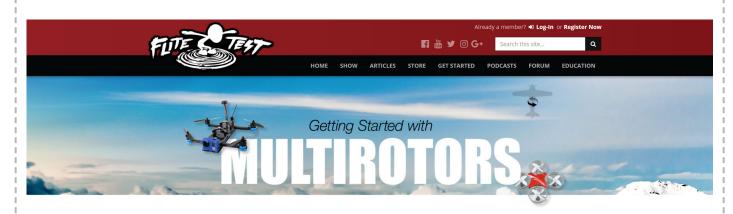
Prior to building, flying and engineering an FT Gremlin, it is important for the students to understand the different basic components and physics of the mini quadcopter. Students do not need the Power Pack to complete this lesson, however, seeing the components could make for visual connections. Each student should have the following worksheet, see attachment for download and printing.





Using the internet, past lectures, etc. students are to conduct research to identify and explain the components that make up the FT Gremlin. Teachers! Use the "Get 2 Know Your Gremlin Answer Guide" for grading/lecture purposes. (See Teacher Resources for Download)





*There are multiple ways of how to deliver this lesson;

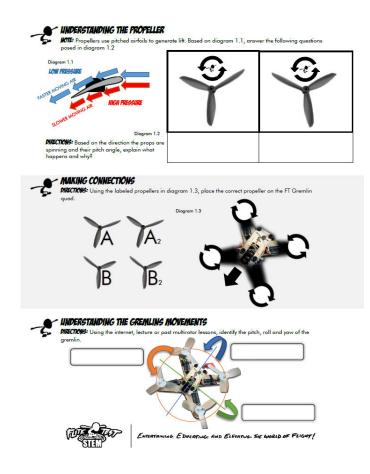
- Teachers can work through this first page along with the students
- Students can work independently or in a group with a computer and internet to complete worksheet.
- Hands on approach, students can use another quad to reference and guide their learning through the FT Gremlin unit.

STEP 2

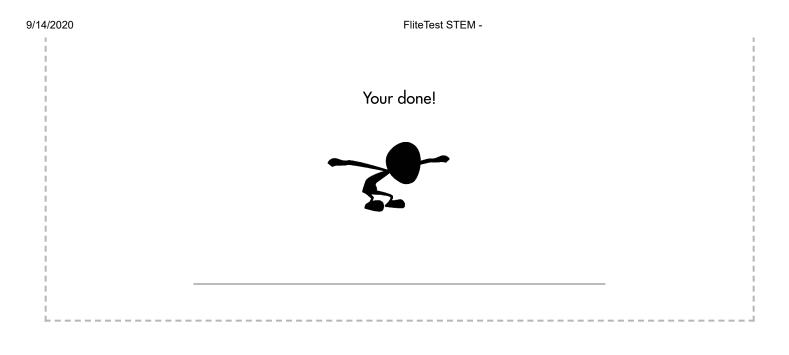
UNDERSTANDING HOW THE FT GREMLIN WORKS

Time: Half a period, 15-30 minutes

In the same approach taken to complete Step 1, guide the students through the understanding and completion of second half of the worksheet. Each student should have the following side of the worksheet, see attachment for download and printing.



THIS LESSON IS COMPLETED! PLEASE MOVE TO LESSON "BUILDING YOUR GREMLIN"



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