

CSAAPT Fall 2022 Semi-Virtual Meeting



Chesapeake Section of the
American Association of Physics Teachers
Fall 2022 Semi-Virtual Meeting
October 22, 2022 in Falls Church, VA

Contribution ID: 21

Type: **talk (15-minute)**

Imaginary Flights

Saturday, October 22, 2022 3:45 PM (15 minutes)

In this activity, students learn about addition of vectors and relative motion in two dimensions by simulating real flight conditions on an obsolete Flight Navigation Chart. These charts, called “Sectional Charts”, are used by pilots to identify landmarks. Students act as “pilots” as they take their airplane from the origin airport to her destination airport, first passively (without correcting for wind), then actively (correcting for wind.) Details of the activity, learning objectives, teacher preparation, tips for a successful project, as well as student “pre-flight” preparation, final project results and learning outcomes will be shared. Extension activity suggestions will be presented as well.

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Presenter: CLAIRMONT, Lilian (Appomattox Regional Governor’s School)

Session Classification: Afternoon Session 2B (Chair: Maria Gordon, Zoom Monitor: Elena Kuchina)