

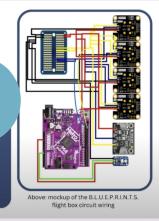






## HOW DOES IT WORK?

- 4 pre-calibrated electroch
- sensors • Sensors feed data to a M
- microcontroller board • Each sensor outputs one real
- 60 seconds for PH<sub>3</sub>, O<sub>3</sub>, light, humany, pressure, temperature, & NH<sub>3</sub>/H<sub>2</sub>S levels • Information is processed by the Metro
- M4 and stored on a microSD ca retrieval and analyzation



## BIOSIGNATURE LEVELS: UNDERSTANDING EARTH PHOSPHINE RESEARCH IN THE NEARBY TROPOSPHERE AND STRATOSPHERE (B.L.U.E.P.R.I.N.T.S)



SCHOOL:	ASTRA NOVA SCHOOL
	RANCHO PALOS VERDES, CA
	WORLD VIEW
GRADES:	MIDDLE SCHOOL

## STUDENT EXPERIMENT DESCRIPTION

Our experiment collects data on phosphine levels in the stratosphere to better understand phosphine gas on Earth. Our experiment will detect 3 additional trace gases and include a pressure sensor (barometer), a temperature sensor, and a light intensity detector. This will enable us to compare the measurements gleaned from these components with our trace gas measurements to determine whether any relationships can be found between these variables.