Rubin Investigations

Teacher-Friendly

- Minimal prep time, **classroom-ready**
- Works for **typical classroom contexts**
- Comprehensive **support materials and community**
- **Flexible** lesson components to use as needed
- Designed for the **Next Generation Science Standards**

Engaging for Students

- **Authentic astronomy data** from a “big data” survey
- **Current and relevant** questions in astronomy
- **Easy-to-use** interactive analysis tools
- Rich and varied **data visualizations**
- **English and Spanish** versions

Low Stress technology

- Access **via a web page**
- **No data to download**
- **No special software** to learn or install
- **Embedded tools** for data analysis
- **Totally free**

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Learn more ▶

VERA C. RUBIN OBSERVATORY

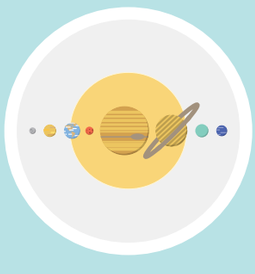
Rubin Investigations

Appropriate for advanced middle school through “Astro 101” college students

Available Topics

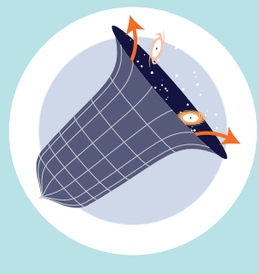
Surveying the Solar System

Classify newly-discovered Solar System objects by characterizing their orbital properties.



Expanding Universe

Use galaxy and supernova data to determine the expansion rate of the Universe.

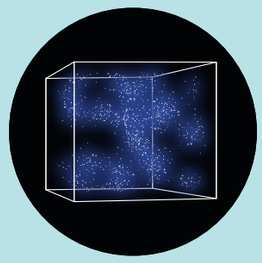


Coloring the Universe

Create multicolor images that are visualizations of science datasets.

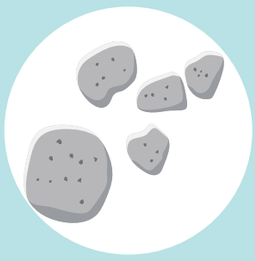
Observable Universe

Explore how galaxy redshifts reveal the evolving structure of the Universe.



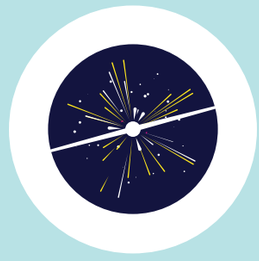
Hazardous Asteroids

Determine if a newly-discovered asteroid poses a threat to the Earth.



Exploding Stars

Analyze light curves to identify types of supernovae and to determine the distance to host galaxies.



Included Resources

- Interactive online app
- Pretest/ Posttest
- Phenomenon
- Teacher guide
- Short science video
- Formative assessments
- Summative assessment with scoring rubric
- (Other resources on main website: Rubin Voices, YouTube channel, Gallery images and slideshows)

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