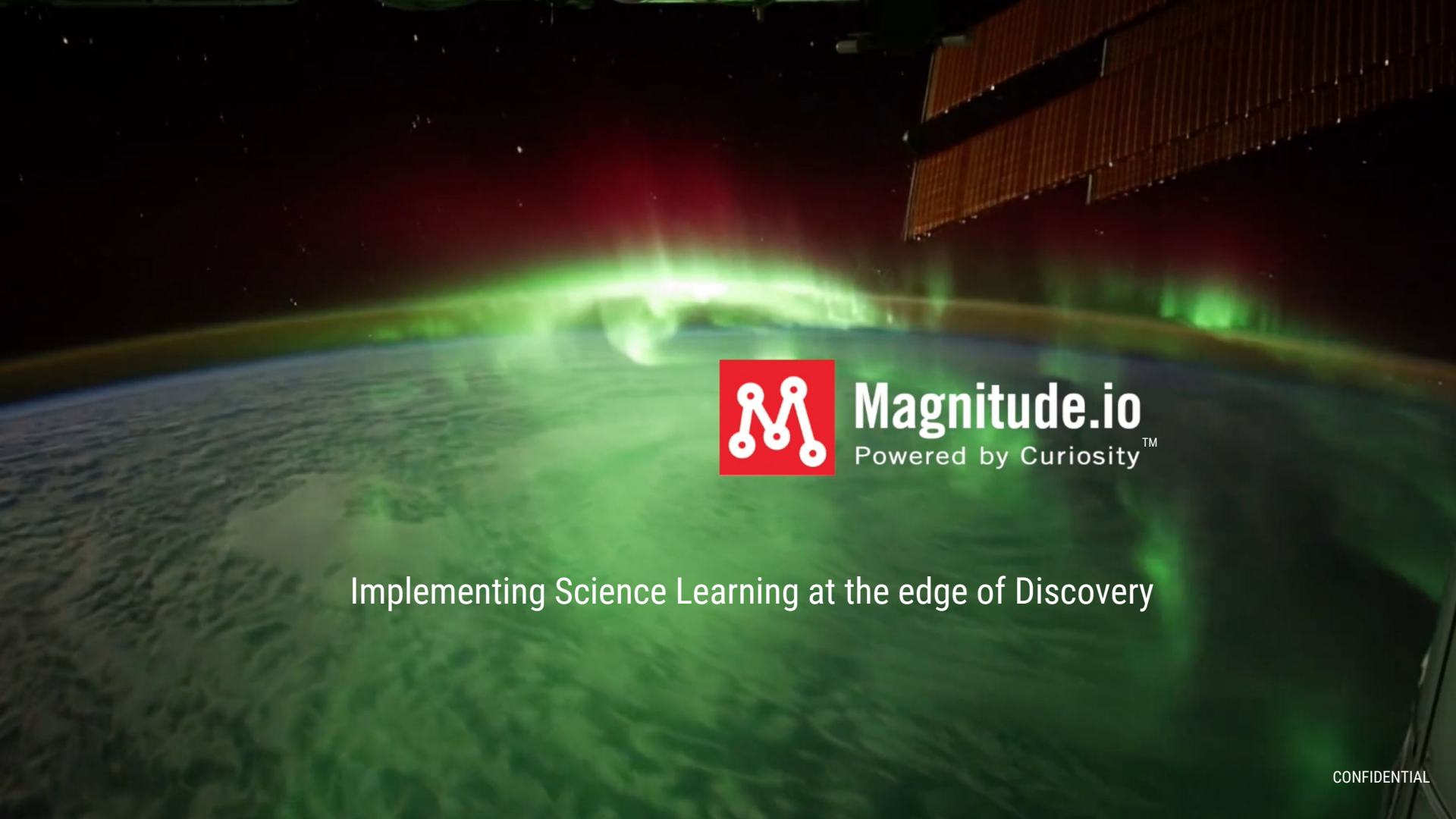


Magnitude.io

Powered by Curiosity™

Implementing Science Learning at the edge of Discovery

CONFIDENTIAL

Driving Questions

In less than 15 years, humanity will have the Deep Space Gateway, people will have begun living on the moon, and a few brave astronauts will be on a long journey to Mars.

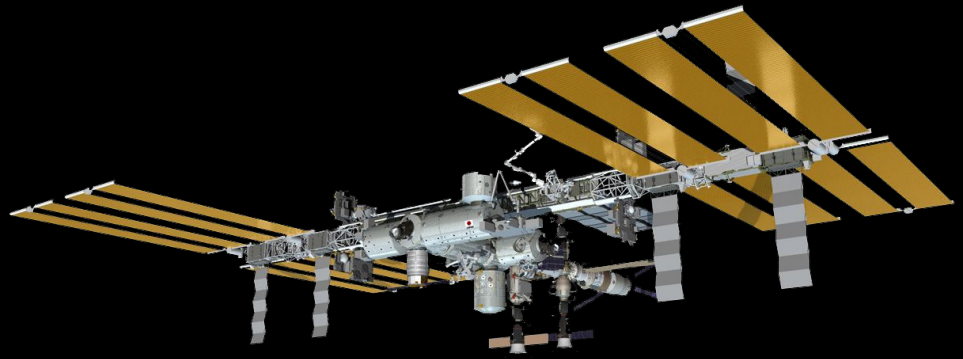
It is impossible to carry all the food required for crew members on the spacecraft and astronauts on the moon. We have to grow or produce food efficiently in microgravity or low gravity environments.

What do we know today and how do we improve the process?

Driving Questions

The plants we consume today for nutrition have evolved generation after generation under the influence of Earth's gravity. If we grow and produce food in low gravity and microgravity environments, how might these plants be affected?

What effect will the food grown in Space have on human being long term?



ExoLab

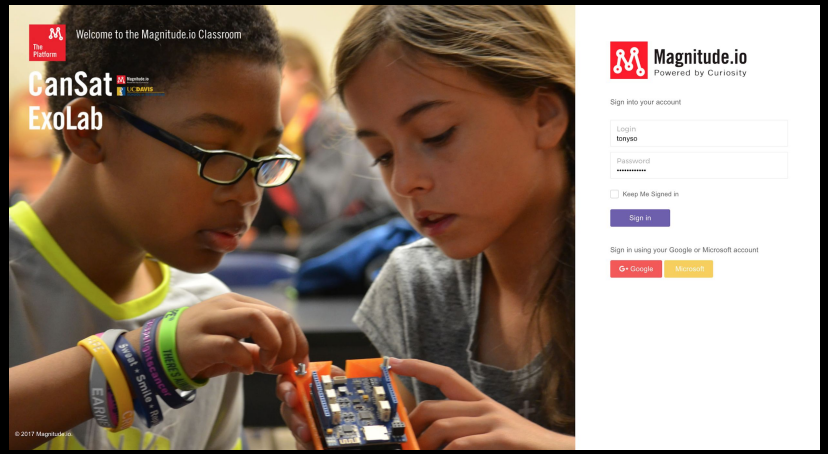
A plant biology investigation run in classrooms and linked directly to the International Space Station and other students globally

Magnitude.io
Powered by Curiosity™

CONFIDENTIAL

Click to watch the video

Magnitude Learning Platform



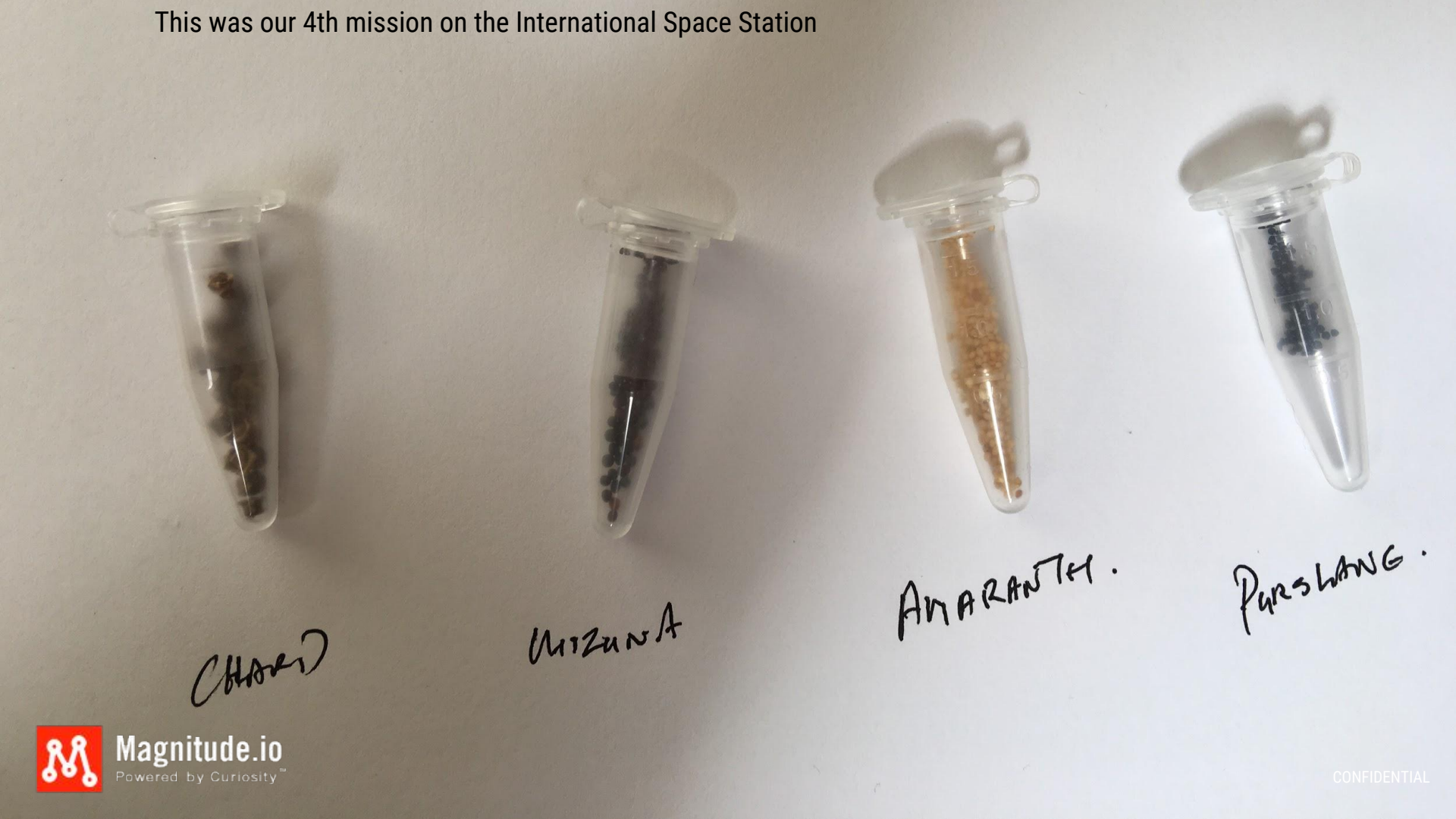
A Learning Management Platform that captures student progress, reports assessments, and reduces workload for teachers for blended learning. This is the gateway to other Space related learning.

Lesson Library
Data Visualization
Compare and share data with student globally
Realtime Student Progress
Clone and tailor your own lesson
Notes Taking
Assessments
Single Sign-on

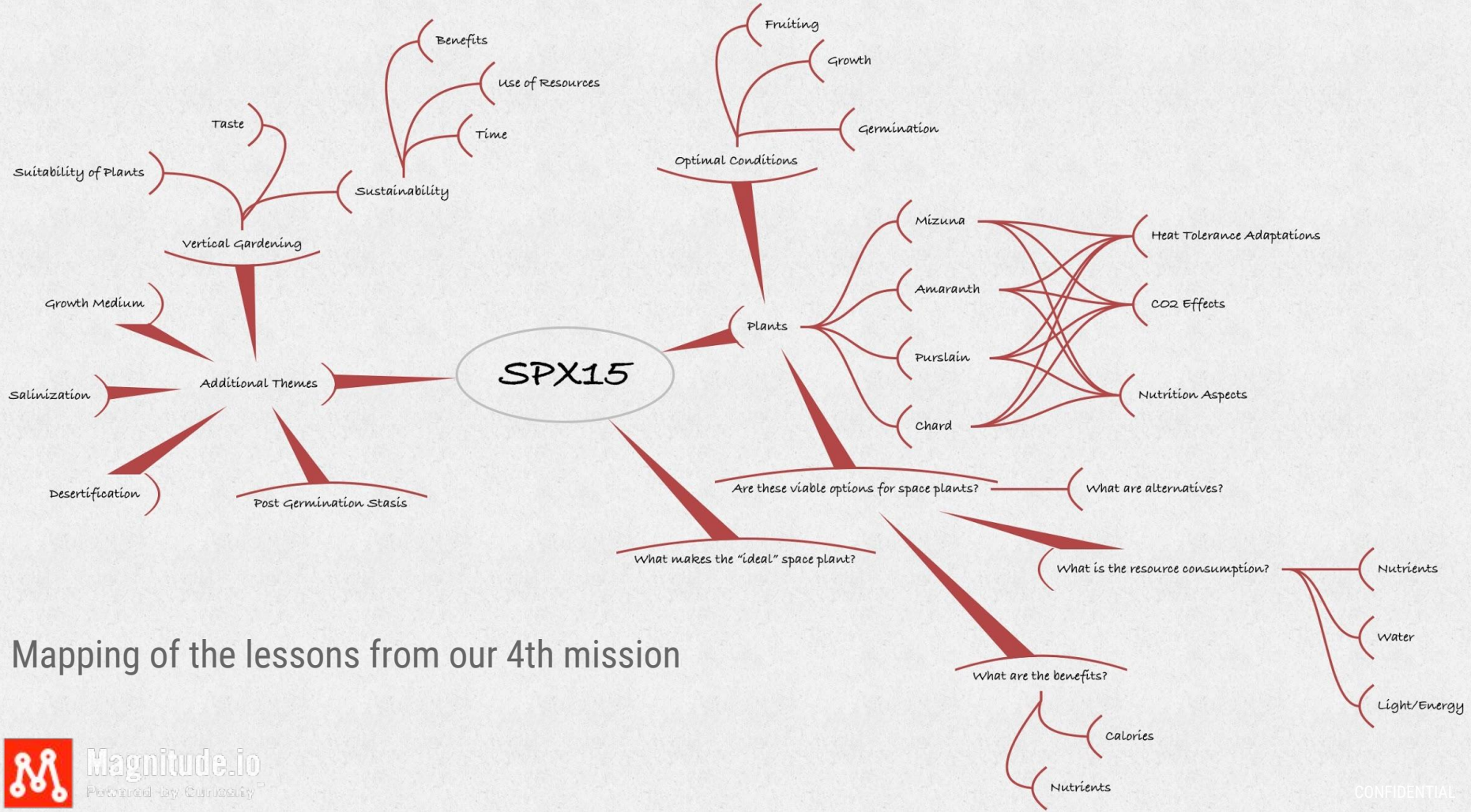
Magnitude.io
Powered by Curiosity™

CONFIDENTIAL

This was our 4th mission on the International Space Station



Magnitude.io
Powered by Curiosity™
CONFIDENTIAL



Mapping of the lessons from our 4th mission

Magnitude.io
Powered by Curiosity

CONFIDENTIAL

Magnitude.io
Powered by Curiosity™
CONFIDENTIAL

Fieldston Lower School in New York

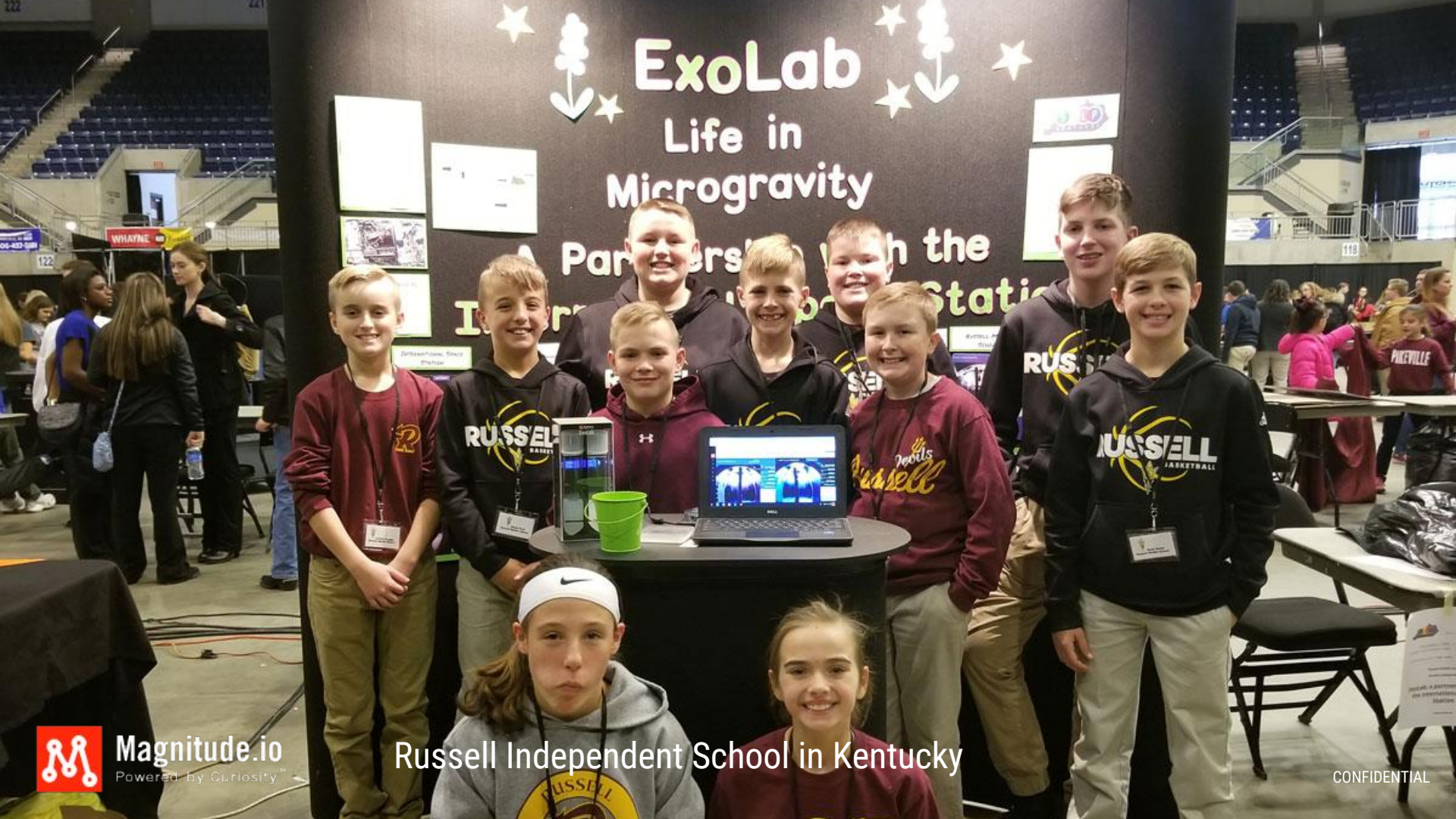
Magnitude.io
Powered by Curiosity™

CONFIDENTIAL

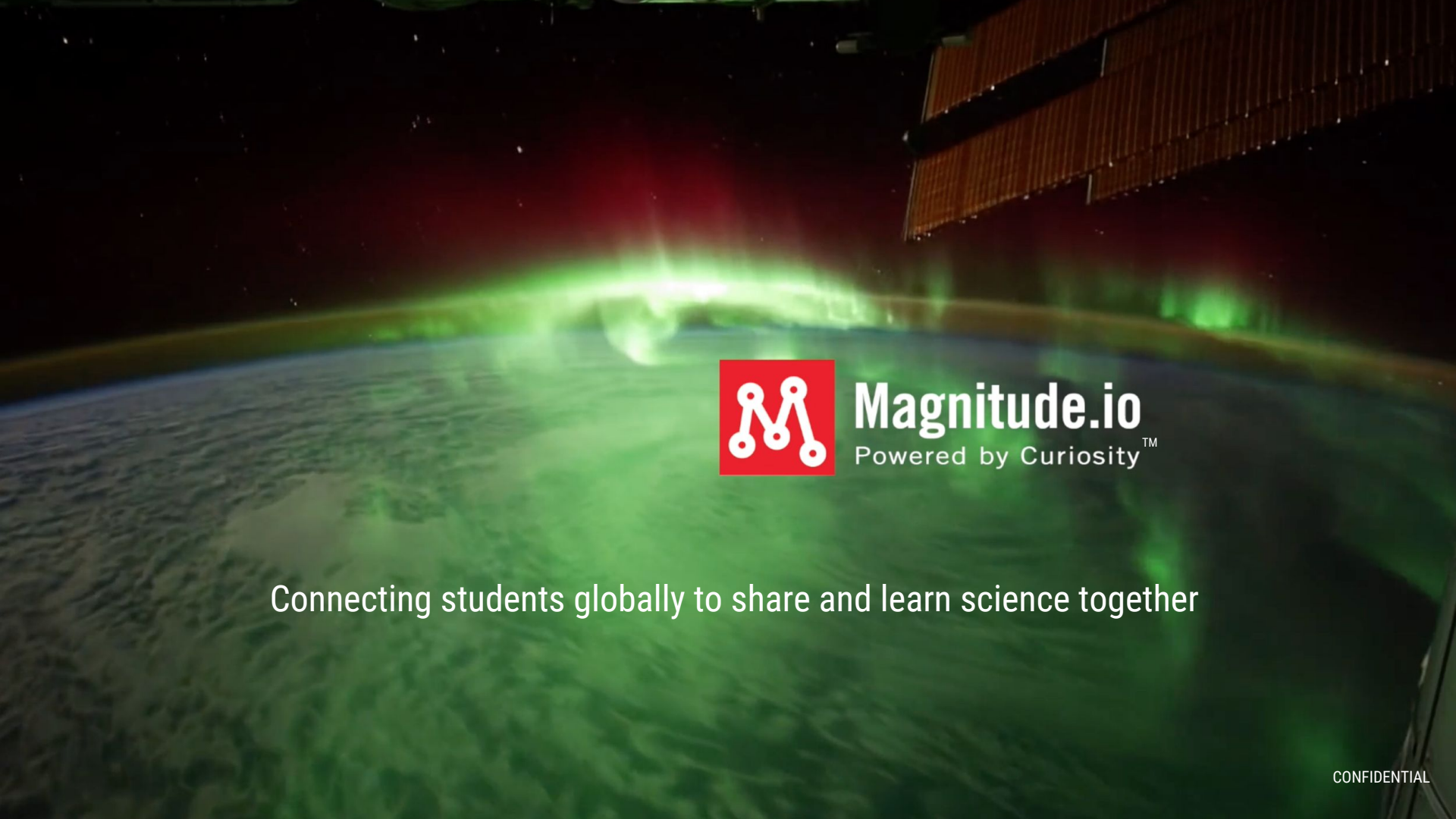
Magnitude.io
Powered by Curiosity™

Claremont High School in CapeTown, South Africa

CONFIDENTIAL



Russell Independent School in Kentucky



Magnitude.io

Powered by Curiosity™

Connecting students globally to share and learn science together

CONFIDENTIAL