

### **Endurance22— Math**

Welcome to the Endurance22 Expedition to Antarctica. Reach the World has designed a journey outline with linked articles and sample activities to guide you. This itinerary is designed to be followed at your own pace. Use this suggested itinerary and take your students on a virtual exchange expedition that they'll never forget!

Want more related learning resources? [Feel free to use any of Reach the World's activities!](#)  
Questions? Please contact [educators@reachtheworld.org](mailto:educators@reachtheworld.org).

#### *Week #1: Endurance22: An Historic Expedition*

1. Journal: [An Expedition 100+ years in the making](#)
  - o Recommended Activity: [Pre-assessment](#)

#### *Week #2: Introduction to Endurance*

1. Livestream: [Pack your Bags](#) (41 mins)— The Endurance22 Expedition is just days away from departure for the Weddell Sea. What is RTW explorer Tim Jacob packing for a multi-week Antarctic expedition? Let's ask him!
  - o Recommended Activities:
    - [Pack your bags \(Elementary\)](#)
    - [Pack your bags \(Middle school/high school\)](#)

#### *Week #3: Providing Food for the S.A. Agulhas II*

1. Field Note: [Everybody Loves Mealtime on a Ship](#)
2. Optional Recorded Livestream: [Mealtime on the S.A. Agulhas II with Chef Kurt Daniels](#) (54 mins)— Tim speaks to S.A. Agulhas II's Chef, Kurt Daniels, about how he prepares meals for the Endurance22 Expedition
  - o Recommended Activities:
    - [Lunch on a Ship](#) (Elementary/Middle School)
    - [Careers in Math \(Middle/High School\)](#)

#### *Week #4: Navigating Ice*

1. Field Note: [What the Ice Gets, the Ice Keeps](#)
  - o Recommended Activities:
    - [Time, Distance & Speed](#) (Elementary/Middle School)
    - [Breaking the Ice with Torque Worksheet](#) (High School)

#### *Week #5: Finding Endurance*

1. Livestream: [Discovering Sir Ernest Shackleton's Endurance](#) (58 mins)— Over a century after Sir Ernest Shackleton's ship sank, the Endurance22 crew found Endurance at a depth of 9,869 feet in the Weddell Sea. Watch Tim speaking with Endurance22 Director of Exploration Mensun Bound and AUV Supervisor Chad Bonin about sub-sea robotics and their search for Sir Ernest Shackleton's sunken Endurance
  - o Recommended Activities:
    - [Share your reactions to the discovery](#) (all ages)



- [Discovering Endurance \(Middle School\)](#)
- [Discovering Endurance \(High School\)](#)

*Week #6: The Challenges of Finding Endurance*

1. [Discovery album](#)
  - Recommended Activity: [Water Pressure Worksheet](#) (Middle School)

*Week #7: Reflections on An Historic Expedition*

1. Journal: [Farewell to the S.A. Agulhas II](#)
  - a. Recommended Activity: [E22 Survey](#)
  - b. Recommended Activity: Watch crew and expedition member reactions and have students share their own [here](#)

**OPTIONAL: Live Video Conference with Reach the World Explorer Tim Jacob**

Would you like to schedule a live video conference between your students and Tim? Video conferences are optional and subject to classroom and explorer availability. Reach the World strongly recommends that classrooms review most expedition articles prior to scheduling a video conference.

Ready to go? Please [complete this form](#) to schedule.