# Israel: Environment, Climate and Geography: Historic and Current Challenges and Successes that Impact Our Lives

Dr. Tal Grinfas-David March 20, 2022



### **Breakout Groups**

- Tal Strategies for teaching about climate change and what students of all ages can do about it
- Rachel Creating a school trip that celebrates learning about Israel's innovations around climate change



## How can trees stop wildfires?



https://www.cnn.com/videos/world/2021/10/06/israel-wildfires-tree-swapping-climatecrisis-intl-pkg-vpx.cnn

## Plan for Passover

- How can you make your holiday environmentally friendly?
- Animals Frogs
  https://www.smithsonianma
  g.com/smart-news/anextinct-frog-reappears-inisrael93444192/#:~:text=Called%20
  the%20Hula%20painted%20fr
  og,critically%20endangered%
  20rather%20than%20extinct.
  And

https://www.israel21c.org/watershed-moment-for-extinct-israeli-frog/



## History and Science can Shape our Future

https://www.israel21c.org/whylocusts-form-destructiveswarms/

# Why locusts form destructive swarms

Researchers discover what causes solitary, harmless insects to radically change their behavior and form huge migrating swarms.

By Abigail Klein Leichman | MARCH 7, 2022, 8:00 AM



# Tel Aviv ranks #2 in global cleantech ecosystem report

Startup Genome report finds the White City second only to Silicon Valley for startups dedicated to renewable energy, transportation and logistics.

By Abigail Klein Leichman | FEBRUARY 10, 2022, 9:18 AM



https://www.israe l21c.org/tel-avivranks-2-in-globalcleantechecosystemreport/

## 9 technologies to help the world's trees

To celebrate the Jewish environmental holiday of Tu B'shvat, find out about the top ag-tech companies working to ensure the health and wellbeing of our trees.

By Naama Barak | JANUARY 13, 2022, 7:30 AM

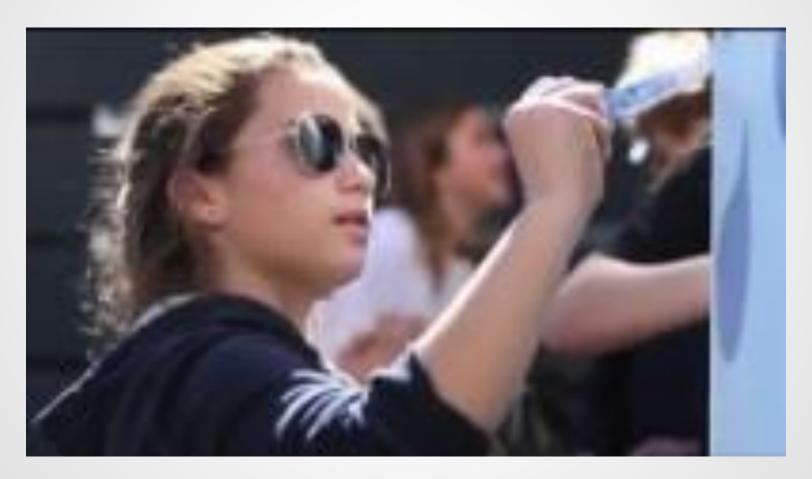


https://www.israel21c .org/9-technologiesto-help-the-worldstrees/

## Translating to School Experiences

- Have a rotating bulletin board with interactive challenges about Israel and Climate Change
- Design scavenger hunts with prizes where students scan codes to learn more
- Assign each student a 5 minute presentation at the beginning of each class from israel21C.org
- Create a design challenge what innovation from Israel could help our school or community become more environmentally friendly?
- Examine the trees and their properties what landscape design would you recommend to both beautify the school and make it hardy for drought, frost, heat and wildfires?
- Design an Israel garden at your school how will you make your area bloom and what will it represent?
   <a href="https://germantownjewishcentre.org/building-and-grounds/israel-garden/">https://germantownjewishcentre.org/building-and-grounds/israel-garden/</a> Create a greenhouse for conditions that suit biblical plants, <a href="https://www.tieonline.com/view\_article.cfm?ArticleID=208">https://www.tieonline.com/view\_article.cfm?ArticleID=208</a>
- Have students design an online escape room activity about climate change
- Learn about the flora and fauna of Israel and how eco systems are interdependent
- Explore the man-made lake in Dimona: <a href="https://www.youtube.com/watch?v=6ws1C8yHC28">https://www.youtube.com/watch?v=y0ny6nienxM</a> or the Nevatim Reservoir: <a href="https://www.youtube.com/watch?v=my8KS49k9Wo">https://www.youtube.com/watch?v=my8KS49k9Wo</a>
- How does Kibbutz Ketura serve as an oasis for growing food? <a href="https://www.youtube.com/watch?v=6LvTCaUY\_os">https://www.youtube.com/watch?v=6LvTCaUY\_os</a> and <a href="https://www.youtube.com/watch?v=\_FAgQ0aXwDs">https://www.youtube.com/watch?v=\_FAgQ0aXwDs</a>
- What is sustainable farming and how does this benefit a community?
- The crisis of refugees how will climate change impact people around the world and the State of Israel? Where are refugees today and why are they leaving? To where?

## Collaborating on Rain Barrels to Address Climate Change



### **Additional Resources**



## Sharing Israeli Innovations for Global Sustainable Development



#### For more information contact:

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## Sample of possibilities

- Educational settings such as preschools and high schools
- Factories, Museums and Kibutzim
- Israel Educational Journey led by Hebrew College 2017: Welcome (2017israelbhecec.blogspot.com)