

The Incredible Science of Ice and Snow

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
Bismillahi Rahmanir Rahim

TEACHER GUIDE

1. Set the Tone and Intention

- Begin with Bismillah.
- Remind students that knowledge is from Allah and for the purpose of knowing Allah better.

2. Preview the Issue

- Cover: Ask your students: What do you think the issue is about? What do you know about the various topics listed at the top? Describe the cover of the magazine.
- Vocabulary:
 - Condensation
 - Evaporation
 - Water Cycle
 - Water Vapor
 - Groundwater
 - Deposition
 - Water's Molecular Structure



Look for Atlasia Toolbox cues throughout the issue!



3. Weekly Calendar (Pg 6)

- Write down the days of the week on the classroom board! Each day has a fun activity you can incorporate to stimulate students.
- Write to Atlasian Corner and email to editor@atlasiakids.com.



4. Ninety-Nine (Pg 8)

Comprehension questions:

- "What does Al-Hayy mean?" (*The Ever-Living*)
- "What was the call that the Prophets were told to spread?" (*That Allah is Al-Hayy, the Ever-Living, Who gives life to all*)
- "What were some of the miracles that the Prophets were given?" (*Prophet Isa could heal the sick and blind, Prophet Musa struck the rock, From which rivers began to flow, Prophet Ibrahim was protected By the fire that swallowed him whole, Prophet Ismail was saved When Zamzam gushed from the sand, Prophet Muhammad was given the Qu'ran, A gift of guidance from above*)



Activities:

- Each week, establish a time to read a story of one of the Prophets. There are many lessons to be learned through these stories, and many activities that can be implemented. (*Find a list of resources attached*)

5. Donkey Dan (Pg 10)

Comprehension questions:

- "What career does Fatimah Matsatsi Shai have?" (*She's a chef!*)
- "What different traits does becoming a chef take?" (*Patience, perseverance, passion*)



Activity:

- Hold a cooking competition and have various admin staff be the judges
- Host a cultural day potluck where everyone brings their own special dish



5. Funlasia (Pg 12)

- Draw and color this month's amazing Funlasia.
 - Create a physical therapeutic snowglobe with recycled jars, water and a bit of baby oil, glitter, and any creative insert!

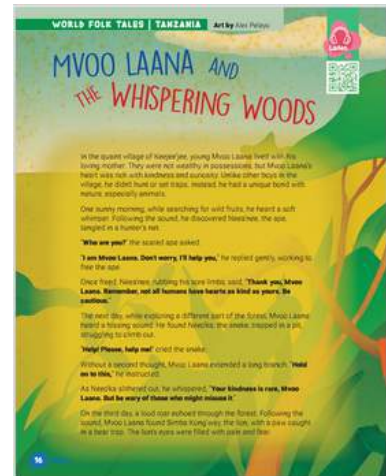
6. World Folk Tales (Pg 16)

Pre-reading questions:

- "What's the best way to treat Allah's creations?"
- "How does someone become more intelligent?"

Comprehension questions:

- "What do you think a lesson from this story could be?" (*Kindness and unity with nature are admirable skills that can help us in ways we may not even imagine!*)

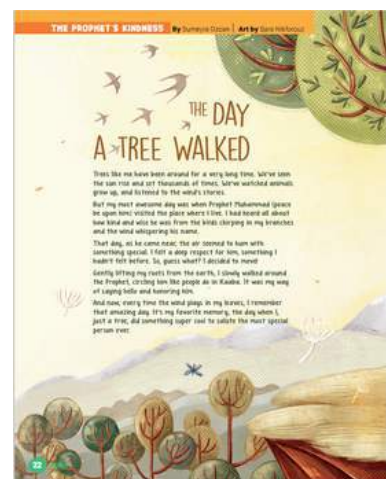


Activity:

- Review Atlasia's *The Prophet's Kindness to Animals* Department

8. The Prophet's Kindness (Pg 22)

- Learn all about trees, the various functions they have, how to know how old they are, and all the miraculous ways Allah has given us use for them.



9. Diary of Layla (Pg 24 - 30 mins)

Pre-reading Questions:

- “When learning something new, how do you react to the mistakes you make?” (*Open answer*)

Comprehension Questions:

- “What kind of pen is used for Arabic calligraphy?” (*a special wooden pen called a qalam*)
- “Why do you think Layla was upset with Sami over the qalam? What do you think Sami might have been feeling?” (Example answer: *Layla might be frustrated that she can't get the calligraphy right. Sami might have been waiting a while for Layla to finish and became impatient*)

Activity:

- Give half of the class only one piece of paper, and the other half of the class only a pen. Explain that you want the students to write or create ‘thank you notes’ to the janitors of the school. The only rule is that the students can only use the materials just handed out and each other. Encourage them to be creative in how they end up making their notes (The end purpose is for them to all use each other to create the notes!)



10. ZOOM (Pg. 28 - 15 mins)

Comprehension Questions:

- “What is condensation?” (*When water vapor rises high enough, it meets cooler air and turns back into tiny water droplets*)
- “What is the sun’s role in the water cycle in comparison to the clouds’ roles?” (*The sun’s heat provides the energy to start the cycle, and evaporate the water. This evaporated water eventually becomes clouds.*)



- “What purposes does snow provide?” *(Maintains ecosystems, acts as an insulator, replenishes the water cycle)*
- “The type of snowflake that forms depends on _____” *(the temperature and humidity in the cloud)*
- “What causes snowflake’s six-sided symmetry?” *(The molecular structure of water, forms hexagonal patterns when it freezes.)*



11. Checklist (Pg 34 - 15 min)

- “What is making dua a time for?” *(It’s a time for wishes, thanks, and a deep connection)*
- “When are the special times for making dua?” *(After fardh prayers, Between adhan and iqamah, During tahajjud, When it rains, After reciting Qur’an, While traveling, Drinking Zam Zam water, While fasting)*



13. What If? (Pg 36 - 10 min)



Comprehension Questions:

- "What are some of the consequences of not having snow?" *(Less water for drinking, farming, swimming, and fishing. Polar bears and penguins would struggle. Winter sports like skiing and snowboarding wouldn't exist. Places where people go to enjoy the snow would have to find new ways to entertain visitors)*

14. Atlas (Pg 40 - 10 mins)

- Discuss Greenland:
 - "Why do you think Greenland's wildlife includes so many marine animals, specifically seals and whales?" *(Greenland is an island surrounded by marine life! It is also cold, which means animals with blubber to keep them warm will thrive)*



STORIES OF THE PROPHETS

ACTIVITY IDEAS

Adam (AS): Place a candy or a treat in front of students, and tell them that if they don't eat it while you leave the room, they'll get more treats when you get back. Have another teacher come into the room and try to convince them to eat it anyway. When you get back, teach your kids about the nafs and ego and relate it to Adam's story!

Nuh (AS): Build a boat with various challenges and limited materials. Relate this to how Allah inspired and gave Nuh (AS) the miracle of a boat carrying 2 of each kind of animal in existence:

<https://www.feelgoodteaching.com/2017/05/stem-challenge-boat-building.html>

Musa (AS): Demonstrate to your students with water, rocks and a filter. Take the clear water, demonstrate to your students putting rocks into the water, and then ask your students what they think will happen when you try and pour the water and rocks through a coffee filter. Exemplify the fact that the water is a person. There will always be "rocks" of difficulties put in your way whether it's making mistakes like Musa (AS)'s mistakes or being around people like the Pharaoh. However, in the same way all the students know that the water will come out clean after the filter, we know that once we trust in Allah we will come out cleaner after every hardship.

Isa (AS): Have students create a new type of fruit, anything they can imagine! Draw each fruit on a piece of paper and then cut them out and collect them on the front table. Have students present their fruit. Remind students how Allah sent Maryam and Isa (AS) blessings of fruit that we can only dream of! We can have any of these fruits we've thought of in Jannah.

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