



# Family Packs

## Teacher Guide



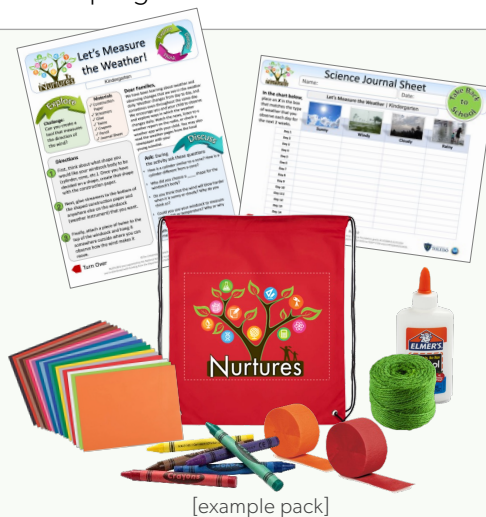
3<sup>rd</sup> Grade

NURTURES teachers receive 4 Family Pack activities for their classroom. This guide will provide information on your grade level specific family packs, tips on distribution and incorporating family pack activities in your classroom, and guidance on assembling packs for your classroom. All Family Pack materials will be provided by the NURTURES program.

## Family Packs

NURTURES Family Packs are designed to extend science learning from school to home with fun, educative activities for the entire family. Each pack features activity directions, necessary materials, and a journal sheet for children to record data or visually represent their understanding. Students will bring home 4 packs throughout the school year.

Family Packs are designed to support and encourage families to have meaningful science discussions, use scientific vocabulary, promote interest in science learning, and reinforce math and literacy concepts.



[example pack]

## 3<sup>rd</sup> Grade Family Pack Activity Overview



**Air Racers** ▶ Families experience the Engineering Process by designing and building air racers, testing to see which air racer can go the farthest, using only wind power.



**Ice Cube Meltdown** ▶ Families investigate how different household substances affect the rate at which an ice cube melts. *[Consider: activity requires salt & sugar -not provided]*



**Jr. Zoologists** ▶ Families make observations, using science equipment, of a living animal and identify adaptations that help it survive.



**Trash Survey** ▶ Families investigate their household trash, then use the data to develop a plan to help reduce, reuse, or recycle.

## Family Pack Tips



Pack activities focus on physical, life, and earth-space science. Choose the order your packs are distributed based on considerations such as: curricular sequencing, complementary classroom activities, seasonal requirements, or local weather conditions.



Students will be returning Science Journal Sheets with their completed packs. These sheets will include data families collect while completing the activities. Look for opportunities to incorporate the data families gather into your classroom lessons.

# Assembly Example

Family Pack Bag



Student can re-use their bags to take activities home

Sealable Storage Bag



Activities should be packed in storage bags to make pack bag refills easy

Pack Sheet



Journal Sheet(s)



Survey Card



Materials (examples)

Each teacher will receive NURTURES Family Pack bags, print materials, and activity materials for 30 students. **Teachers should designate a person to organize materials and assemble packs** ♦. Each activity should be packed in a large sealable storage bag so it can be easily added to the NURTURES bag over the course of the academic year. Each activity will include a pack sheet (activity directions), journal sheet(s), survey card, and the necessary materials for families to complete the activity. Some activities *may* require specialized items that will be provided to you in limited quantities. These "library" items (marked with ♦ in the table below) should be loaned out to students when they are needed to complete certain activities (e.g., rock sets, scales).

**The specific pack contents for each activity are listed in the table below - use for pack assembly**

Air Racers	Ice Cube Meltdown	Jr. Zoologists	Trash Survey
<p><b>Pack Contents:</b></p> <ul style="list-style-type: none"> <li>○ Pack Sheet*</li> <li>○ Journal Sheets*</li> <li>○ Pencil</li> <li>○ Masking Tape</li> <li>○ Life Savers (8)</li> <li>○ Paperclips (4) <small>[place in small storage bag]</small></li> <li>○ Straws (6)</li> <li>○ Paper (2)</li> <li>○ Measuring Tape</li> <li>♦ Fan</li> </ul>	<p><b>Pack Contents:</b></p> <ul style="list-style-type: none"> <li>○ Pack Sheet*</li> <li>○ Journal Sheets*</li> <li>○ Pencil</li> <li>○ Marker</li> <li>○ Containers (3)</li> <li>○ Ice Cube Tray</li> <li>○ 50 mL plastic beaker</li> </ul>	<p><b>Pack Contents:</b></p> <ul style="list-style-type: none"> <li>○ Pack Sheet*</li> <li>○ Journal Sheets*</li> <li>○ Pencil</li> <li>○ Magnifying Lens</li> <li>♦ Binoculars</li> </ul>	<p><b>Pack Contents:</b></p> <ul style="list-style-type: none"> <li>○ Pack Sheet*</li> <li>○ Journal Sheet*</li> <li>○ Pencil</li> <li>○ Crayons</li> <li>♦ Kitchen Scale</li> </ul>

♦ The designated family pack assembly person will receive a \$100 gift card as compensation for their activities. This person can be a classroom aide/resource person, parent volunteer, teacher, etc.

\* Indicates print materials sent to you from NURTURES. All other materials will be sent via Amazon.

(#) Indicates quantity of item per student to include in each pack, if more than 1

♦ Indicates pack library item. Limited quantities of this item were provided. Students should borrow items as needed and return when finished for reuse by other students.

## Research Reminders

Completion of pack surveys is vital. **Encourage and remind families about the surveys.** QR codes and survey web addresses are printed on each pack sheet and the survey cards.



[packs.nurturesprogram.com](http://packs.nurturesprogram.com)



Each Journal Sheet is marked to encourage students to bring back to school. **Be sure to collect, scan, and submit your classroom journal sheets to NURTURES.** Paper sheets can be used in class or returned to families.