



# Paw Prints

**Grant Ranch School**  
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January 2022

GRANT RANCH SCHOOL ECE-8



## About Paw Prints 2021-2022

*These publications are available online @*  
[http://grantranch.dpsk12.org/?page\\_id=432](http://grantranch.dpsk12.org/?page_id=432)  
*Grant Ranch Webpage -* <http://grantranch.dpsk12.org>



Paw Prints is a monthly newsletter for Grant Ranch School. This is an important communication link for parents and includes important happenings at our school.

You can read, download, and print this newsletter monthly on the Grant Ranch Webpage.

<http://grantranch.dpsk12.org>

## \$15 Per Hour Online Private Tutoring

Mathematics, English, Science and Coding  
for all K-12 students.

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GET STARTED

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 720.780.0005 | @yogasix\_littleton  
 yogasix.com/littleton



Sponsorship space in this newsletter is extremely affordable! Reach parents in your local community & a significant portion of your investment goes back to the school! Want to sponsor this school? Please contact Rob Mangelson at [Rob@tscacolorado.com](mailto:Rob@tscacolorado.com) or (720) 878-4107.

# SAVE the DATE

- February 1 PTO Meeting 5-6 PM
- Science Fair Projects are due February 15, 2022
- February 21 & 22 No School for Students
- CMAS Testing March 22 - April 15
- 1/31/22 - 2/25/22 Kids Heart Challenge



### Open for Families

The expanded and reimagined Denver Art Museum is now open. Explore hands-on activities, new artmaking spaces, fun in-gallery games, and so much more. Youth 18 and under enjoy free general admission every day.

LEARN MORE AT [DENVERARTMUSEUM.ORG](http://DENVERARTMUSEUM.ORG)



The Free for Kids program at the Denver Art Museum is made possible by Scott Feiman and presented by Bellco Credit Union.





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SEASONS IN HISTORY**

**AS A 100% VOLUNTEER  
ORGANIZATION, WE NEED  
THE COMMUNITY'S HELP  
THERE ARE SMALL AND  
LARGE WAYS TO HELP**

**LEARN MORE ABOUT HOW  
YOU CAN HELP OUT AT:**

**WWW.KCLLBASEBALL.COM**

## Order your 2021-2022 Yearbook Now!

Oh My, Time is Running Out! Buy the  
Grant Ranch Ece-8 School  
Yearbook Today!



### Customize Your 2 Free Pages

- Add photos from your computer, Facebook, Instagram, Google Drive & more.
- Answer fun Memory Questions to help remember the year.
- The 2 Custom Pages are FREE and are printed ONLY in your book. Want more pages? Each additional 2 pages is just \$0.99.

### To Purchase & Customize Your Yearbook

Must be a parent or student 13 years or older.

- 1 Go to [www.treering.com/validate](http://www.treering.com/validate)
- 2 Enter your school's passcode:  
1016353537992860

Regular Price: \$25.00  
\*Does not include sales tax, if applicable  
Deadline: Apr 14

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## Kids Heart Challenge



### FLYING PIG SOUTH

NOW OPEN FOR DINE IN, TAKE OUT,  
AND DELIVERY!

- LARGE PATIO
  - BURGERS, WINGS, TACOS, MAC N CHEESE
  - ONLINE ORDERING AND CURBSIDE AVAILABLE
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## Science Fair (see Attached pages)

Các nhà khoa học! Hãy theo dõi!

Những học sinh đam mê khoa học ! Hội chợ khoa học thường niên tại Grant Ranch đang sắp diễn ra, và chúng tôi cần BẠN!

Thông tin sẽ được tiết lộ trong ấn bản PawPrints của tháng 12 trên website và Facebook của chúng tôi.

BẠN ĐÃ SẴN SÀNG CHƯA ?



HUMAN DEVELOPMENT  
AND FAMILY STUDIES  
COLORADO STATE UNIVERSITY

## LOOKING FOR RESEARCH PARTICIPANTS



### TEENS:

Would you like to manage stress or worries better?

### WHAT:

Group program and research study helping teens better manage stress

### WHO:

Teens in the Denver area ages 14-18 (and their parents)

*Families who qualify to participate  
will be compensated up to \$105*

### WHEN:

Groups will meet virtually for 1 hour/week for 7 weeks

*Parents and teens do some tasks before and after the group program*

Email for more information:  
[m2m@colostate.edu](mailto:m2m@colostate.edu)

### PARENTS:

We're also looking for couples to participate in a study to understand links between communication and health. This is a separate study and involves:

Filling out questionnaires  
Having a conversation with your partner  
Submitting a saliva sample

All procedures can be completed online and families can earn up to \$60 for approximately 1 hour of their time

Email for more information:  
[familylab@colostate.edu](mailto:familylab@colostate.edu)

## The Science Fair is Coming!

Who: All students in ECE -8<sup>th</sup> grade are invited to participate in the Science Fair  
**This is an optional extracurricular project to be completed at home.**







Due Date: **Projects are due February 15, 2022**

\*\*\*Please do not bring in projects before this due date unless you have an arrangement with your classroom teacher\*\*\*

When: Projects will be on display in the lobby from February 15—Feb 24, 2022

The project must follow the scientific method and be displayed on a freestanding presentation board.

### The scientific method is:

1. Find a problem or ask a question 
2. Do background research 
3. Construct a hypothesis 
4. Test your hypothesis with an experiment 
5. Analyze your data and draw a conclusion 
6. Report your results 

Presentation of Science Projects: Completed projects must be displayed on a freestanding presentation board that is no larger than 36"x48". Remember to take pictures along the way as pictures will help document your experiment. Michaels, Hobby Lobby, Walmart and Target all carry display boards like the one below. **Please Mrs. Holden know if you need a board and one will be provided.**



More guidance on a science fair project may be found at <https://sciencebob.com/science-fair-ideas/thescientific-method/> and <https://www.sciencefaircentral.com/students/scientific-projects/steps>

Keep this top paper at home for guidance.

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**Please return this form to your classroom teacher by January 11,2022.**

I have reviewed the Science Fair information and calendar with my child,  
\_\_\_\_\_, (Printed Name of Child) and we understand the requirements  
for a successful Science Fair Project. My child **will be** participating in the Science Fair.

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Student's Grade

\_\_\_\_\_  
Student's Teacher

## Time Line

### **Brainstorm (1 week)**

- ✂ Choose an area of science
- ✂ Choose a question
- ✂ Identify the problem

### **Research (1 Week)**

- ✂ Identify research variables, gather information using books, magazines, internet, and experts in the field.
- ✂ Write bibliography, including names of experts (authors, etc.)

### **Write your Science Fair Proposal**

- ✂ Write “the question” you will investigate
- ✂ Write the types of questions you investigated in your research or will investigate
- ✂ Write a hypothesis (based on the research)
- ✂ Write down the materials you will need

### **Do the Project (1-3 Weeks, longer if using plants)**

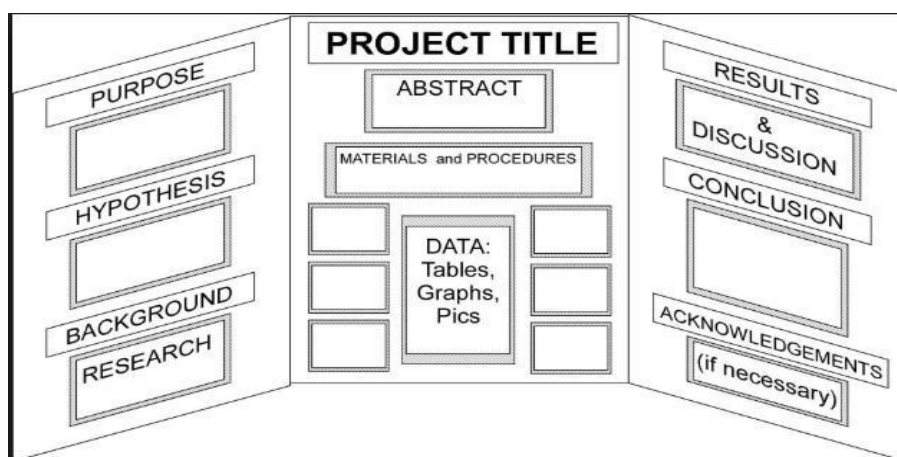
- ✂ Gather materials for experiment
- ✂ Conduct experiment using the procedure you wrote
- ✂ Collect and organize data in more than one way (graph, chart, diagram, and photographs)
- ✂ Write final procedure, background research, hypothesis, conclusions, and etc.

### **Finalize Your Project (3-5 days) and Bring to School on February 15, 2022**

- ✂ Put together your display board

### **Family Science Viewing**

A slideshow will be created and shared with families of all the projects.



## The Scientific Method

The Scientific Method is an organized way of learning new information.

1. **Purpose/Question-** What do you want to learn? An example would be, "What doorknob at home has the most germs?" or "Do plants need daily watering to survive?" or "Does the color of a light bulb affect the growth of grass seeds?"
2. **Research-** Find out as much knowledge as you can. Look for information in books, on the internet, and by talking with others to get the most information you can before experimenting.
3. **Hypothesis-** After doing your research, try to predict the answer to the problem. Another term for hypothesis is 'educated guess'. This is usually stated like " If I...(do something) then...(this will occur)" An example would be, "If I grow grass seeds under green light bulbs, then they will grow faster than plants growing under red light bulbs."
4. **Experiment-** Design a test or procedure to find out if your hypothesis is correct. In our example, you would set up grass seeds under a blue light bulb and seeds under a red light and observe each for a couple of weeks. You would also set up grass seeds under regular white light so that you can compare it with the others. You will need to write down exactly what you did for your experiment step by step.
5. **Results/Data-** Record what happened during the experiment. Also known as 'data'. As you observe your experiment, you will need to record the progress of your experiment. Data can be whatever you observe about your experiment that may or may not change during the time of the experimentation. Examples of data are values in pH, temperature, a measurement of growth, color, distance, and etc. Data should be shown in *more than one way*. Examples of ways to show data; graphs, tables, charts, models, pictures, realia, and etc.
6. **Conclusion-** Review the data and check to see if your hypothesis was correct. If the grass under the green light bulb grew faster, then you proved your hypothesis, if not, your hypothesis was wrong. It is not "bad" if your hypothesis was wrong because you still discovered something! Your conclusion should also include next steps.



## La feria de ciencia se acerca!

Quienes: Todos los estudiantes en los grados ECE - 8 están invitados a participar en la feria de ciencia.  
**Este proyecto extracurricular es opcional y para completar en casa.**







Fecha de entrega: **La fecha de entrega para los proyectos es el 15 de febrero 2022**

\*\*\* Por favor no traigan sus proyectos antes de la fecha de entrega, a no ser que tenga un acuerdo con su maestra. \*\*\*

Cuando: Los proyectos estarán en exhibición en el lobby del 15 de febrero al 24 de febrero del 2022

El proyecto debe seguir el método científico y mostrarse en un un tablero de presentación independiente.

### El método científico es:

1. Hagan una pregunta 
2. Investigar el tema 
3. Elaborar una hipótesis 
4. Prueben su hipótesis haciendo un experimento 
5. Analicen los datos y saquen una conclusión 
6. Compartan los resultados 

Presentación de los proyectos de ciencia: Los proyectos completados deberán mostrarse en un un tablero de presentación independiente que no este mas grande de 36"X48. Recuerda tomar fotos durante el experimento, las fotos te ayudarán a documentar tu experimento. Las tiendas Michaels, Hobby Lobby, Walmart y Target venden los tableros de presentación como el de la foto abajo. **Por favor aviale a Mrs. Holden si necesitas un tablero de presentación y ella te dará uno.**



Aqui puede encontrar mas inforacion acerca de una feria de ciencia  
<https://sciencebob.com/science-fair-ideas/thescientific-method/> y  
<https://www.sciencefaircentral.com/students/scientific-projects/steps>

Puede quedarse con este papel de arriba para utilizar como un guía.

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**Por favor regresa esta forma a tu maestra antes del 11 de enero del 2022.**

He revisado el calendario y la información de la feria de ciencias con mi hijo/a,

\_\_\_\_\_, (nombre impreso del estudiante) y entendemos los requisitos para un proyecto de feria de ciencias exitoso. Mi hijo/a **participará** en la feria de ciencias.

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Firma de padres

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Firma del estudiante

\_\_\_\_\_ Grado del estudiante  
maestro/a

\_\_\_\_\_ Nombre de

## Línea de tiempo

### \_\_\_\_\_ Ideas (primer semana)

- ✂ Escoge una área de ciencia
- ✂ Escoge un pregunta
- ✂ Identifica el problema

### \_\_\_\_\_ Investiga el tema (primer semana)

- ✂ Identifica formas de investigación, recolecta información usando libros, revistas, el internet, y expertos en el área
- ✂ Escribe una bibliografía, incluye los nombres de expertos (por ejemplos los autores y ect.)

### \_\_\_\_\_ Escribe una propuesta para la feria de ciencias

- ✂ Escribe la "pregunta" que investigaras
- ✂ Escribe el tipo de preguntas que investigaste en tu investigación o que investigaras.
- ✂ Escribe tu hipótesis (basada en tu investigación)
- ✂ Escribe los materiales que necesitas

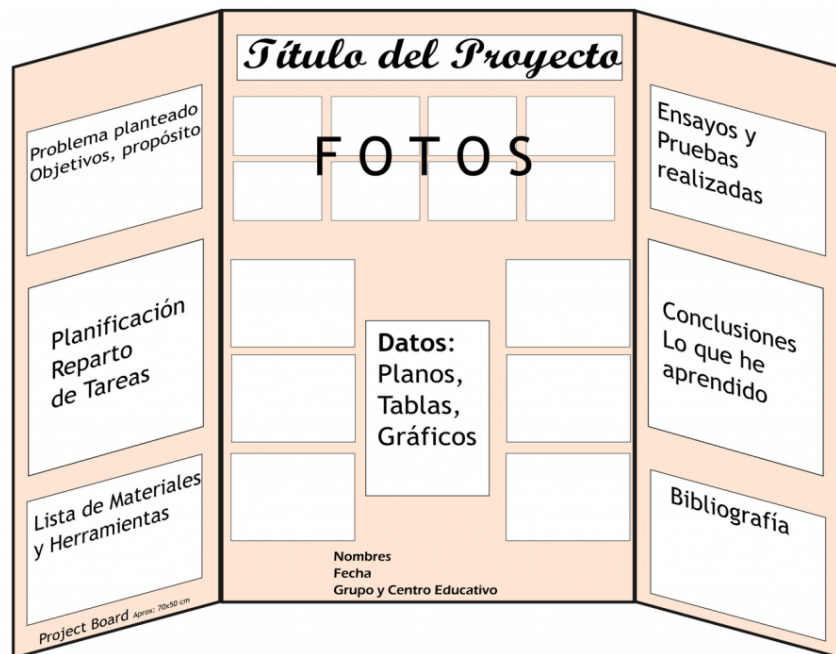
### \_\_\_\_\_ Haz el proyecto (semana 1-3, será más tiempo si usas planetas)

- ✂ Recolecta los materiales para el experimento
- ✂ Empieza el experimento usando el procedimiento que escribiste
- ✂ Colecta y organiza los datos en mas de un amenera (gráfico, cuadro, diagrama, y fotografías)
- ✂ Escribe el procedimiento final, investigaciones, hipótesis, conclusiones, y ect.

\_\_\_\_\_ **finaliza tu proyecto (3-5 días) y traelo a la escuela el 15 de febrero del 2022**

### \_\_\_\_\_ Visualización de ciencia familiar

Se creará un presentacion y se compartirá con las familias



## Metodo Cientifico

El método científico es una manera organizada para aprender nueva información.

### Paso 1: Hagan una pregunta

Para el primer paso, ayude a su hijo a formular una pregunta; en lo posible ¡una que pueda responderse! Las buenas preguntas empiezan con palabras de pregunta: Cómo, qué, cuándo, quién, cuál, por qué o dónde. Por ejemplo, ¿qué taza tiene mayor capacidad? ¿Cuál de estos cuatro objetos crees que flotará en el agua?

### Paso 2: Investigar el tema

Para los niños pequeños, investigar el tema puede incluir una conversación entre ellos acerca de lo que preguntarán. Quizás usted tenga un libro o haya visto un programa sobre el tema. El objetivo de esta etapa es incentivar al científico en la tarea del pensamiento.

### Paso 3: Elaborar una hipótesis

Una hipótesis no es más que una buena conjetura que intenta responder la pregunta del paso 1. Pregúntele a su hijo: "¿Qué taza crees que tiene más capacidad, la azul o la roja? ¿Crees que el clavo flotará o se hundirá? ¿Crees que el bote de papel aluminio flotará o se hundirá?".

### Paso 4: Prueben su hipótesis haciendo un experimento

¡Esta es la parte que usted y su hijo han estado esperando! Ayude a su científico a realizar el experimento. Aliente a su hijo para que sea un observador atento de todo lo que sucede. Hablen de los pasos del experimento. "Primero, llenamos nuestra jarra con agua. Luego, vertemos lentamente el agua en la taza".

#### Paso 5: Analicen los datos y saquen una conclusión

Esta etapa se trata de los resultados. ¿Qué sucedió durante el experimento? Pregúntele a su hijo: "¿El papel de aluminio flotó o se hundió?" "¿Qué taza tenía mayor capacidad?" En esta etapa, ayude a su hijo a responder la pregunta elaborada en el paso 1.

#### Paso 6: Compartan los resultados

Aliente a su hijo a hablar con sus hermanos y otras personas que lo cuidan sobre el experimento. Haga que comente los pasos usados para realizar el experimento y lo que ha aprendido.