



# February Pack Meeting

## Before the Meeting

- Each Cub Scout will need the following materials to make slime:
  - 8 fl. oz. Elmer's White School Glue
  - 2 Tablespoons contact lens saline solution
  - 1 Tablespoon baking soda
  - Food coloring, optional
  - Mixing bowl with spoon (plastic makes cleanup easier)
  - Placemat, plastic tablecloth, or trash bag
  - Ziploc bag
- Email out Slime Science Instructions so the parents know what they are getting into for the upcoming meeting.

## Gathering (~5 minutes)

- Keep Scouts engaged while everyone is logging in.
- Remind them to have their Slime Science ingredients nearby.
- Ask Scouts to share something fun that happened recently.

## Opening (~5 minutes)

- Recite Pledge, Oath, and Law.
- Have slides so everyone can join in.

## Announcements (~5 minutes)

- Heated cabins at Camp Edward, Pigott, Parsons, and Sheppard are available for Families to rent for the weekend through the end of March. Depending on the building and weekend, prices ranges from \$100-180 for the weekend. This is a great opportunity for your family to get out of the house and have a comfortable, safe, camping outing with many acres to explore. Registration found here:
  - <https://www.seattlebsa.org/camping/familycamping>

## Activity (~20 minutes)

- At this point all Scouts should have their placemat place in their work area.
- We are going to do chemistry by making slime!
- Demonstrate each step of making slime; giving Scouts enough time to follow along.
  - In mixing bowl, pour in 8 fl. oz. Elmer's Glue and 1 Tablespoon baking soda.
  - Mix Contents together with spoon.
  - Add food coloring and mix until mixture is at the desired color (important to do this BEFORE moving on to next step).
  - Add 2 Tablespoons contact lens saline solution and mix until slime begins to form.
  - Take slime out of bowl and begin kneading with both hands (on the placemat!). If needed add  $\frac{1}{4}$  Tablespoon contact lens saline solution to make slime less sticky.
  - Allow Scouts a few minutes to play with their slime while sharing some Slime facts, demonstrating where appropriate:
    - Chemistry is about how different materials are put together and how they act under different conditions
    - Slime is a non-Newtonian fluid. This means that it is neither a liquid nor a solid. It can be picked up like a solid, but it will also ooze like a liquid. It doesn't have its own shape, but will rather change its shape to fill whatever container it's placed in. However, it can also be bounced like a ball because of its elasticity.
    - When you pull the slime slowly, it flows more freely. If you pull it quickly, then the slime will break because you are breaking apart the chemical bonds.
    - When we added the saline solution, we changed how the molecules were arranged, and that created a whole new material, slime!
  - Have everybody put their slime away in their Ziploc bag while you move onto the Cubmaster Minute. Slime should always be store in a sealed airtight container while not in use.

## Closing (~5 minutes)

- Cubmaster Minute
  - *Have you tried to do something and failed? Maybe you thought about giving up. But consider this – when Thomas Edison first tried to create a practical light bulb, he didn't succeed right away. Science is often a long series of failures with success at the end. Are you glad Thomas Edison kept trying? Think about that next time you turn a light on in your room.*

*Henry Ford was a creative person who figured out how to produce cars so most people could afford them. He once said, "Failure is simply the opportunity to begin again, this time more intelligently." Clearly, he understood the importance of perseverance. Aren't you glad he didn't just give up when he failed? Think about that next time you are riding in your car.*

*The transistor is a small electric component. When it was first invented, many people couldn't figure out what it would be used for. But some scientists kept trying different ideas with it and eventually it became the basis for most electronic devices. Think about that next time you turn your TV on.*

*So next time you fail at something, think of all those scientists who never gave up on their ideas. Through perseverance they made our lives a lot more comfortable.*

- Thank everyone
- Afterwards, email out Family Camping information that was announced earlier in the meeting