Join Eddie at the Academy to earn stamps and win a prize!

### ACTIVITY #1
Join Marty the Moose on Mondays at 11 a.m. in the Auditorium for story time. This month’s featured book is *A Rock Can Be* by Laura Purdie Salas.

### ACTIVITY #2
Visit *Outside In* on Tuesdays from 2–4 p.m. to read to a reptile. Our cold-blooded friends love to hear your stories!

### ACTIVITY #3
Check out the Spooky Science investigation station on Fridays and Saturdays from 11 a.m.–3 p.m. for hands-on activities.

### TRICK OR TREAT
Visit the Academy every weekend in October and on Halloween to trick or treat through our signature exhibits. What costume do you think Marty the Moose wants to wear this year? Give him a Halloween makeover.
**CHROMATOGRAPHY EXPERIMENT**

Leaves contain different pigments, which give them their color. The color in leaves depends on the presence of chlorophyll (green), carotenoids (yellow-red) and anthocyanins (red-purple). In the fall, the production of chlorophyll molecules slows and stops. This experiment will show you the hidden colors in a green leaf.

**You will need:**
An adult to help with the experiment  
Green leaves from different trees  
Glass cups, jars or beakers  
Rubbing alcohol  
Plastic wrap  
Coffee filter cut into half-inch strips  
Pencil

**Instructions:**
Step one: Sort your leaves by the type of tree they came from. You’ll need one glass, pencil and filter strip for each type of leaf.

Step two: Tear the leaves into pieces and put them in a glass. Add enough rubbing alcohol to cover the pieces and cover the glass with plastic wrap.

Step three: Carefully place the glass in a dish of hot water for 30 minutes. The alcohol turns green as it absorbs the pigments from the leaves.

Step four: Tape a coffee filter strip to a pencil for each glass. Balance the pencil across the glass. The filter will be suspended to barely touch the alcohol.

Step five: The alcohol will slowly travel up the filter. After 30–90 minutes your filter should begin to show several different colors.

Step six: Record your results! Which leaves had the most colorful pigments? Based on your observations, can you predict which trees will have vibrant colors in the fall?