



OCTOBER ACTIVITY SHEET

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

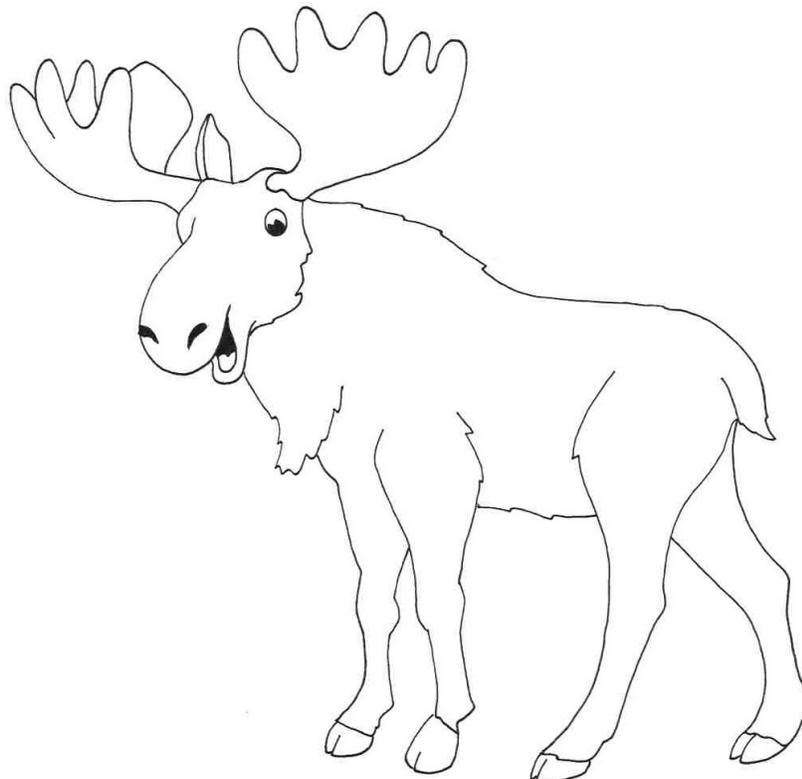
Visit *Outside In* on Tuesdays from 2–4 p.m. to read to a reptile. Our cold-blooded friends love to hear your stories!

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.





Don't forget your stamp.

Get your monthly stamp at the admissions desks. If you have eight stamps, it's time to collect your prize in the Academy Shop!

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?

UPCOMING EXHIBITS AND EVENTS

Xtreme Bugs

Open through
January 21, 2019

Members' Night

Friday, October 12
ansp.org/members-night

Scientist Saturday

October 20



The Academy of
Natural Sciences
of DREXEL UNIVERSITY

Regular Hours:
Monday–Friday,
10 a.m.–4:30 p.m.

Weekends and Holidays,
10 a.m.–5 p.m.

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