AMOS

ASHEVILLE MUSEUM OF SCIENCE

Field Trip & Outreach Guide

2025-2026

GRADES PreK-12th

- Hands-on Learning
- STEAM Programs
- Museum Field Trips
- School Visits

For more information & to fill out an interest form, please visit our site:

43 Patton Ave | ashevillescience.org | 828-254-7162

AMOS is proud to offer two options: museum field trips AND educational outreach opportunities! Our education team offers a wide variety of curriculum topics for all ages.

Table of Contents

Field Trips and Outreach classes are available in the following topics:

Geology

Engineering

Astronomy

Matter and Energy

Weather and Climate

Excursions*

*All Excursions are **off-site** and are subject to availability based on the specific community partner location.*

Please see separate **Education Excursion Guide** for booking quarry trips, forest trips, and more.

Curriculum Overview

	PreK & K	1st Grade	2nd Grade	3rd Grade	4th Grade	5th Grade	6th Grade	7th Grade	8th Grade	9th-12th Grade
Geology										
Astronomy										
Weather & Climate										
Matter & Energy										
Engineering										
Excursions*										

Pre-Kindergarten and Kindergarten

Geology

Mini-Rologists

Suitable for Ages 3-7 (ESS.1.2/3)

Uncover the secret lives of rocks in Mini-Rologists, our geology program for young learners. In this activity, students will gain an understanding of geology and what makes a rock through storytelling and mining AMOS rocks to find and identify different minerals to take home.

Engineering

Structure Builders

Suitable for Ages 3-7 (PS.K.1)

Bring the Three Little Pigs to life with this engineering challenge. Students will work together to make a shelter to withstand the roar of AMOS' own Big Bad Dinosaur.

1st - 2nd Grade

Geology

Mini-Rologists

Suitable for Ages 3-7 (ESS.1.2/3)

Uncover the secret lives of rocks in Mini-Rologists, our geology program for young learners. In this activity, students will gain an understanding of geology and what makes a rock through storytelling and mining AMOS rocks to find and identify different minerals to take home.

Rock Stars

Suitable for Ages 7-13 (ESS.4.2)

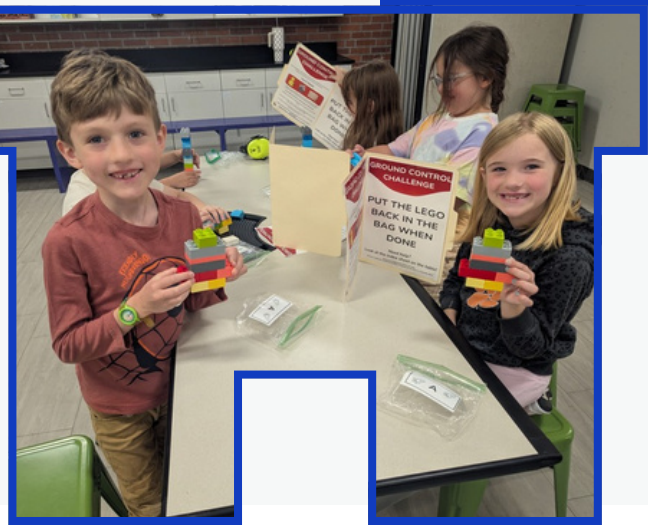
Students will delve into the world of Geology by interacting with rocks and minerals. They will identify rocks and their place in the rock cycle based on their characteristics while playing a game. This program is best suited to follow up a geology unit from your classroom!

Astronomy

Kidstronauts

Suitable for Ages 6-10 (ESS.1.1)

Want to be an astronaut? Students learn more about these scientists' daily lives and even get to test their skills with STEAM challenges that will prepare them for their voyage to space. *Students will also model the Sun, Moon, & Earth system and explore moon phases.*



Add an inflatable planetarium show as a second program (see pricing for details).

1st - 2nd Grade

Weather and Climate

Weather Makers

Suitable for Ages 7-10 (ESS.2.1)

This is an inquiry and invention-based approach to measuring and discovering the weather. Create tools to make your own weather devices. Students will gain a deeper understanding of the design and use of technologies to measure scientific phenomena. At the end of this program, students will recognize the tools that scientists use to study the weather and learn why studying weather patterns is important.

Matter and Energy

Good Vibrations

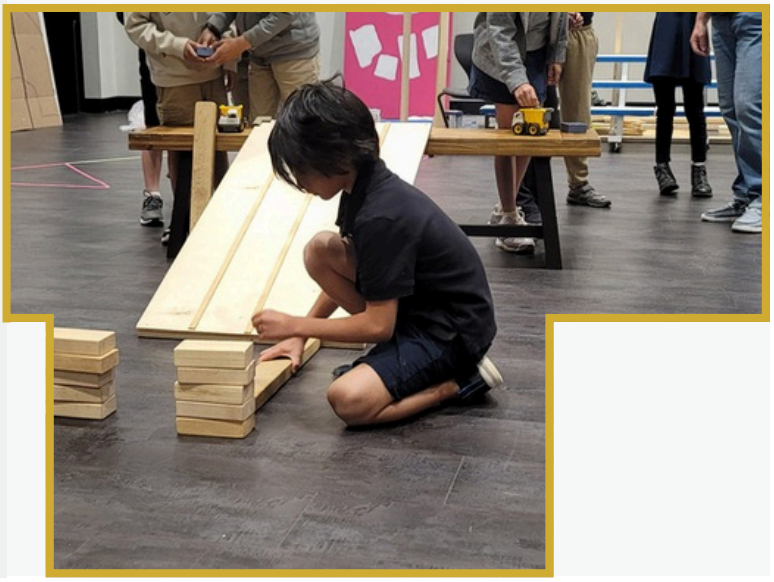
Suitable for Ages 6-9 (PS.2.2)

Students will explore sound, how it is created, and what sound waves look like by investigating a variety of materials and instruments. Discover the relationship between sound and vibration!

Collision Course

Suitable for Ages 7-10 (PS.3.2)

Students will explore material and physical science through the design of a system for launching a small car into a target. During this open-ended creativity and problem-solving lesson, students will apply Newton's Laws of Motion and explain how speeds change when objects collide.

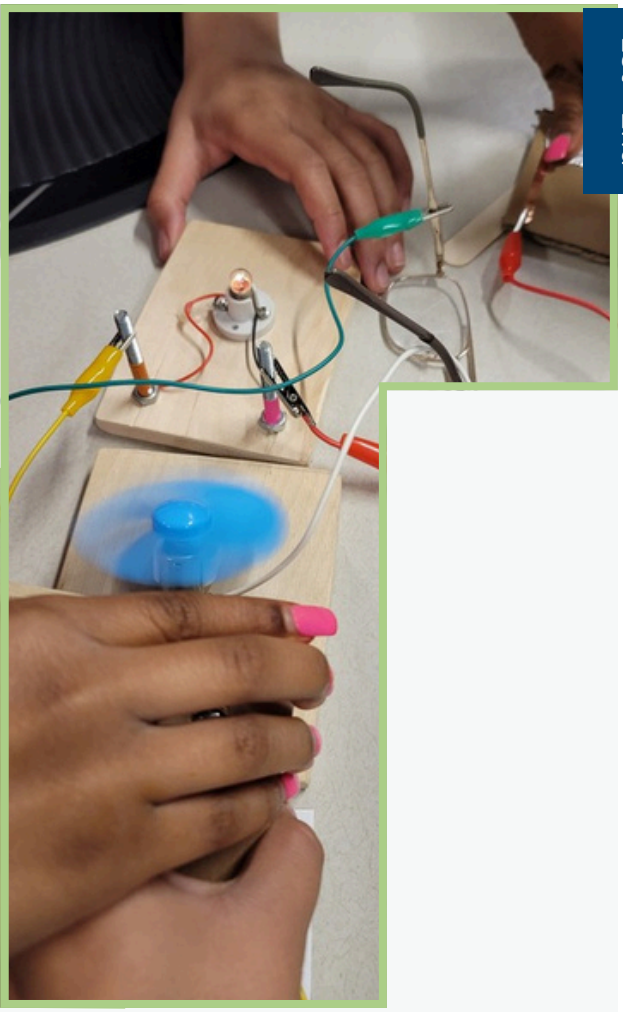


1st - 2nd Grade

Circuit Workshop

Suitable for Ages 7-13 (PS.4.2)

Students will dive into the world of electricity with hands-on construction of electrical components. They will discover the difference between insulators and conductors, and explore open and closed circuits while building their own circuits using a variety of tools.



Engineering

Circuit Workshop — Suitable for Ages 7-13 (PS.4.2)

(Electrical Engineering: See Matter & Energy)

Collision Course — Suitable for Ages 7-10 (PS.3.2)

(Structural Engineering: See Matter & Energy)

Weather Makers — Suitable for Ages 7-10 (ESS.2.1)

(Mechanical Engineering: See Weather & Climate)

3rd - 4th Grade

Geology

Rock Stars

Suitable for Ages 7-13 (ESS.4.2)

Students will delve into the world of Geology by interacting with rocks and minerals. They will identify rocks and their place in the rock cycle based on their characteristics while playing a game. This program is best suited to follow up a geology unit from your classroom!

Mineral Detectives

Suitable for Ages 9-13 (ESS.4.2)

Every rock has a purpose—can you become a geology detective to help an Educator find the right rock for their project? In this activity, students will solve a real-life problem by exploring minerals, using the Mohs hardness scale, and testing rocks with specialty instruments and acid.

Weather and Climate

Weather Makers

Suitable for Ages 7-10 (ESS.2.1)

This is an inquiry and invention-based approach to measuring and discovering the weather. Students will create tools to make your own weather devices. Students will gain a deeper understanding of the design and use of technologies to measure scientific phenomena. At the end of this program, students will recognize the tools that scientists use to study the weather and learn why studying weather patterns is important.

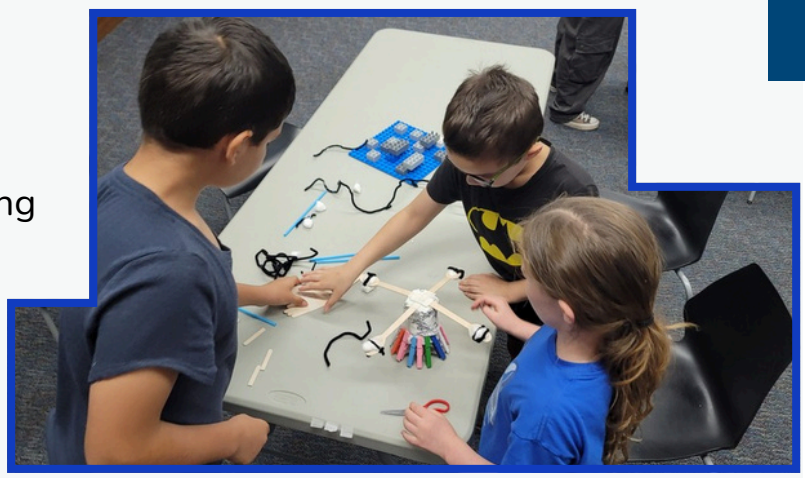
3rd - 4th Grade

Astronomy

Lunar Landers

Suitable for Ages 7-13 (ESS.4.1)

Students will build and test their own lunar lander. They will prepare for their launch by learning about the harsh conditions of the lunar surface, discussing the challenge of leaving Earth in a spacecraft to explore the moon, *and pick their launch date by using the phases of the moon.*



Eyes on the Solar System

Ages 8-15 (ESS.3.1)

Students will live a day in the life of our solar system through interactive play and inquiry-based exploration with our ***new*** GeoGlobe or inflatable planetarium. *They will take ownership over research and practice science communication through group sharing.*

Outreach inflatable version shown here

See page 13 for GeoGlobe

3rd - 4th Grade

Matter and Energy

Good Vibrations

Suitable for Ages 6-9 (PS.2.2)

Students will explore sound, how it is created, and what sound waves look like by investigating a variety of materials and instruments. Discover the relationship between sound and vibration!

Renaissance Robota

Suitable for Ages 8-14 (PS.5.2/7.2)

Travel back in time with us as we explore how Medieval inventors used simple machines and linkages to create the earliest form of robotics— ***automata***. Compare and contrast with contemporary robotics, and then use your own inventor skills to make a working 14th century robot to take home!

3rd - 4th Grade

Collision Course

Suitable for Ages 7-10 (PS.3.2)

Students will explore material and physical science through the design of a system for launching a small car into a target. During this open-ended creativity and problem-solving lesson, students will apply Newton's Laws of Motion and explain how speeds change when objects collide.

Circuit Workshop

Suitable for Ages 7-13 (PS.4.2)

Students will dive into the world of electricity with hands-on construction of electrical components. They will discover the difference between insulators and conductors and explore open and closed circuits while building their own circuits using a variety of tools.

3rd - 4th Grade

Engineering

Lunar Landers

Suitable for Ages 7-10 (ESS.4.1)

(Structural Engineering: See Matter & Energy)

Collision Course

Suitable for Ages 7-10 (PS.3.2)

(Structural Engineering: See Matter & Energy)

Circuit Workshop

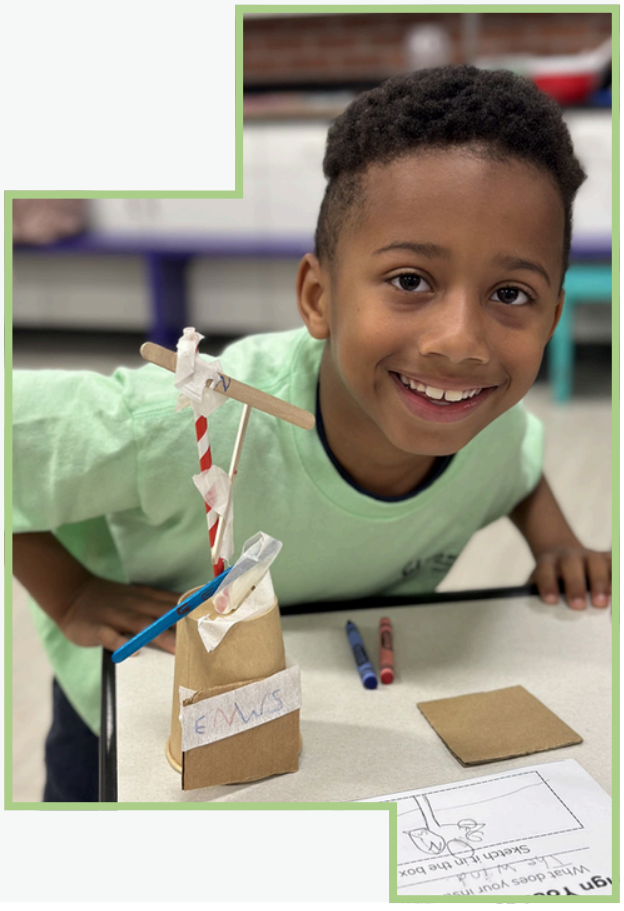
Suitable for Ages 7-13 (PS.4.2)

(Electrical Engineering: See Matter & Energy)

Weather Makers

Suitable for Ages 7-10 (ESS.2.1)

(Mechanical Engineering: See Weather & Climate)



5th - 6th Grade

Geology

Rock Stars

Suitable for Ages 7-13 (ESS.6.2.3)

Students will delve into the world of Geology by interacting with rocks and minerals as a Geologist does and learn details of their properties. They will identify rocks and their place in the rock cycle based on their characteristics while playing a game.

Mineral Detectives

Suitable for Ages 9-13 (ESS.6.2.3)

Every rock has a purpose—can you become a geology detective to help an Educator find the right rock for their project? In this activity, students will solve a real-life problem by exploring minerals, using the Mohs hardness scale, and testing rocks with specialty instruments and acid.

5th - 6th Grade

Matter and Energy

Circuit Workshop

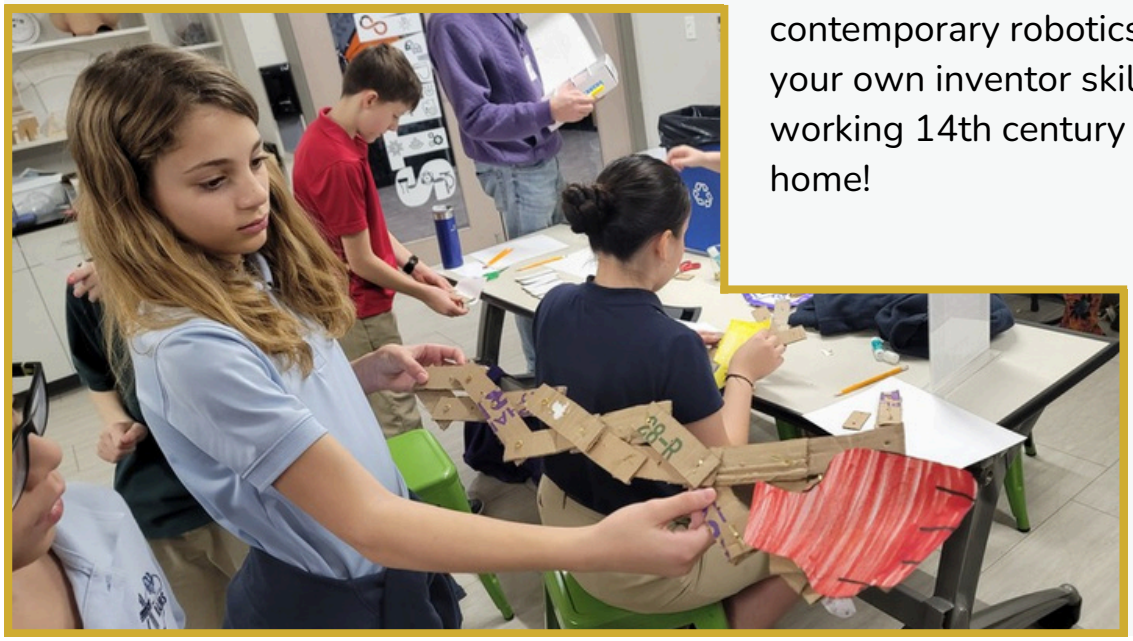
Suitable for Ages 7-13 (PS.6.2.4)

Students will dive into the world of electricity with hands-on construction of electrical components. They will discover the difference between insulators and conductors and explore open and closed circuits while building their own circuits using a variety of tools.

Renaissance Robota

Suitable for Ages 8-14 (PS.5.2)

Travel back in time with us as we explore how Medieval inventors used simple machines and linkages to create the earliest form of robotics—***automata***. Compare and contrast with contemporary robotics, and then use your own inventor skills to make a working 14th century robot to take home!



5th - 6th Grade

Astronomy

Lunar Landers

Suitable for Ages 7-13 (ESS.6.1.1)

Students will build and test their own lunar lander. They will prepare for their launch by learning about the harsh conditions of the lunar surface, discussing the challenge of leaving Earth in a spacecraft to explore the moon, and pick their launch date by using the phases of the moon.

Eyes on the Solar System

Ages 8-15 (ESS.6.1.2)

Students will live a day in the life of our solar system through interactive play and inquiry-based exploration with our ***new*** GeoGlobe or inflatable planetarium. They will take ownership over research and practice science communication through group sharing.

Museum GeoGlobe version shown here

See page 7 for Outreach inflatable dome

7th - 8th Grade

Geology

Rock Stars

Suitable for Ages 7-13 (LS.8.3)

Students will delve into the world of Geology by interacting with rocks and minerals as a Geologist does and learn details of their properties. They will identify rocks and their place in the rock cycle based on their characteristics while playing a game.

Mineral Detectives

Suitable for Ages 9-13 (LS.8.3)

Every rock has a purpose—can you become a geology detective to help an Educator find the right rock for their project? In this activity, students will solve a real-life problem by exploring minerals, using the Mohs hardness scale, and testing rocks with specialty instruments and acid.

Astronomy

Lunar Landers

Suitable for Ages 7-13 (PS.7.1)

Students will build and test their own lunar lander. They will prepare for their launch by learning about the harsh conditions of the lunar surface, discussing the challenge of leaving Earth in a spacecraft to explore the moon, and pick their launch date by using the phases of the moon.

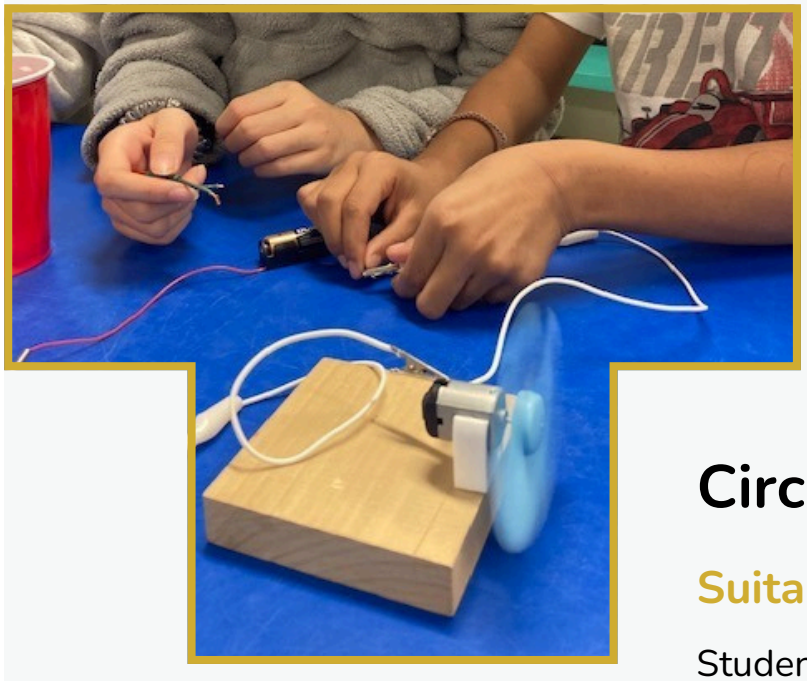
Eyes on the Solar System

Suitable for Ages 8-15 (6.E.1)

Students will live a day in the life of our solar system through interactive play and inquiry-based exploration with our inflatable planetarium. They will take ownership over research and practice science communication through group sharing.

7th - 8th Grade

Matter and Energy



Circuit Workshop

Suitable for Ages 7-13 (PS.8.1.2)

Students will dive into the world of electricity with hands-on construction of electrical components. They will discover the difference between insulators and conductors and explore open and closed circuits while building their own circuits using a variety of tools.

Renaissance Robota

Suitable for Ages 8-14 (PS.7.1.2)

Travel back in time with us as we explore how Medieval inventors used simple machines and linkages to create the earliest form of robotics—***automata***. Compare and contrast with contemporary robotics, and then use your own inventor skills to make a working 14th century robot to take home!

9th - 12th Grade

Astronomy

Eyes on the Solar System

ESS.EES.1

Students will live a day in the life of our solar system through interactive play and inquiry-based exploration with our ***new*** GeoGlobe or inflatable planetarium. They will take ownership over research and practice science communication through group sharing.

Matter and Energy

Renaissance Robota

PS.PSc.5

Travel back in time with us as we explore how Medieval inventors used simple machines and linkages to create the earliest form of robotics—***automata***. Compare and contrast with contemporary robotics, and then use your own inventor skills to make a working 14th century robot to take home!

Pricing

	Group Size	Price per Student	Price per Staff/ Teacher	Price per Chaperone	Flat Rate
General Admission with One Program	15-75	$10.50	$0	$5	NA
General Admission with Two Programs	15-60	$19	$0	$5	NA
Outreach Programs (travel fee may apply)	5+	NA	NA	NA	$200*
Outreach Two Programs (travel fee may apply)	5+	NA	NA	NA	$400*

Needs Based & Title 1 Discounts

- Please note that our pricing structure does not cover all costs related to programming. Thanks to the generosity of our donors and sponsors, we are able to cover the gap in cost.
- Title I discounts available at request due to the generosity of donors and other sponsors:
  - 15% Buncombe County Schools.
  - 10% Asheville City Schools & other.
- *Additional discounting available based on economic need and additional application requirements upon request.

Policies

- A deposit of 50% is due two weeks prior to your field trip or outreach date.
- During field trips, teachers/staff and parents are considered chaperones.
- K-5th grade field trips must have a minimum of a 1:6 adult to student ratio, and a maximum of a 1:3 adult to student ratio.
- 6th-12th grade field trips must have a minimum of 1:10 adult to student ratio.
- Adults in excess of the ratio will be subject to full admission cost upon arrival.
- Chaperones must be a minimum of 16 years of age, such in the case of camp groups, but we do require at least 1 adult (18 years or older) per 25 students.
- Adults with younger children accompanying them (children not a part of the general group of students), cannot be counted towards chaperone numbers and must pay group-discounted, full admission price. Children over the age of 2 will also be charged.

ASHEVILLE MUSEUM OF SCIENCE

Bus Unloading and Parking

Student Drop-Off/Pick-Up Location

1. Head towards AMOS on **Patton Ave.**
2. Turn **RIGHT** on **Church St.**, which is directly across from the museum.
3. Unload children on the sidewalk of **Church St.** between Patton Ave. and Commerce St. See [redacted] on map.
4. After safely unloading children, continue to bus parking 1 or 2.
    a. **Bus Parking Area 1:**
        i. Continue down Church St. for 1 block.
        ii. Turn **LEFT** onto **Aston St**.
        iii. Take an immediate **RIGHT** onto **S. Lexington Ave**.
        iv. Bus parking space will be on your **right** at the corner of Aston St and S. Lexington Ave., across from Aloft Hotel.
    b. **Bus Parking Area 2** (if #1 is unavailable)**:**
        i. Continue on S. Lexington Ave. for 1 block.
        ii. Turn **RIGHT** onto **Hilliard Ave.**
        iii. Drive 3 blocks, then turn **RIGHT** onto **Coxe Ave.**
        iv. At T-intersection turn **LEFT** onto **Patton Ave**.
        v. Turn **RIGHT** at light onto **Otis Ave**.
        vi. Drive 2 blocks, then turn **RIGHT** onto **Battery Park Ave**.
        vii. Bus Parking will be on your **immediate right** before the intersection of O Henry and Battery Park.

PLEASE DO NOT:

- **Drop students off on Patton Ave.**
- **Pull onto curbs.**
- **Turn into Asheville Savings Bank parking lot after Church St.**


AMOS
ASHEVILLE MUSEUM OF SCIENCE
NORTH
GROVE ARCADE
aloft
Biltmore Ave
Haywood St
Battery Park Ave
College St
Patton Ave
Church St
S Lexington Ave
Aston St
O Henry Ave
Otis St
Coxe Ave
Asheland Ave
N French Broad Ave
Hillard Ave
S Lexington
1
2
MADE WITH ICOGRAMS
Bus Unloading/Loading Zone
1 2
Bus Parking Locations