Contract Requisition Number: CR056740 Contract Number: B0001509 Vendor Number: V0761001

MILWAUKEE BOARD OF SCHOOL DIRECTORS PROFESSIONAL SERVICES CONTRACT

This Contract is being entered into this 1st day of September 2022, by and between **Urban Ecology Center** ("Contractor") and Milwaukee Board of School Directors ("MPS").

1. SCOPE OF SERVICES

Contractor shall specifically perform the following tasks:

This is a Blanket Contract under which the Contractor shall provide field trips and environmental educational activities and services for partnering Milwaukee Public Schools during the 2022-2023, 2023-2024 and 2024-2025 school years. The partnering school must be within two (2) miles of any of Contractor's three (3) centers in Riverside Park, the Menomonee Valley and Washington Park. The Neighborhood Environmental Education Project (NEEP) is based on research that shows consistent contact with a piece of land from a young age is vital to becoming an environmentally literate adult. The fieldtrips are offered to students from grades K3-12 and are aligned to Next Generation Science Standards (NGSS).

Contractor shall enter into partnership with approximately thirty-one (31) schools during 2022-2023, thirty-three (33) schools during the 2023-2024 and thirty-five (35) schools during the 2024-2025 school year.

Contractor shall provide participating schools a package of 12 full-day (4-6 hours) or 24 half-day (2-3 hour) fieldtrips each school year. Fieldtrips will be divided evenly by season and will be held at the Urban Ecology Center, Outdoor Classrooms and other local natural areas. Contractor will provide instructional programs for a maximum of thirty (30) students per visit with a minimum of one (1) of Contractor's instructors per every fourteen (14) students. The participating MPS School shall ensure a teacher and chaperone or two (2) teachers accompany students on each field trip. Those teachers or chaperones must fully participate in the activities.

Contractor shall provide transportation from the school to all program site(s) for one classroom. MPS shall advise Contractor of the number of attendees which shall not exceed thirty (30) students and adults. All attendees must be age 4 or above. There will be an additional charge of \$100.00 for classrooms greater than thirty (30) students and adults that require transportation. Contractor's buses are not suitable for transporting students in wheelchairs therefore the school is responsible for arranging alternative transportation for students in wheelchairs. There will be an additional annual transportation charge of \$500.00 for any school accepted into the Neighborhood Environmental Education Project (NEEP) and located beyond the two (2) mile range of Contractor's three (3) centers.

Contractor will provide science and environmental education support for MPS teachers and serve as a resource center for the teachers. Support includes access to Contractor's environmental education library, experience with wildlife, science teaching experience and close contact with other non-formal education centers in the area.

Participating schools shall have priority enrollment into teacher training programs implemented by the Contractor, such as Earth Partnership for Schools grant-funded summer institute, Cornell Lab Ornithology's Urban Bird Studies training, or "Growing Up Wild" early childhood education curriculum.

School shall receive free access to educational displays and teaching kits for science classes and/or school festivals, including an urban wildlife trunk and other educational kits as available.

Contractor will make available additional environmental education opportunities and fieldtrip services. Past programs have included a watershed-based trip to Riveredge Nature Center, visiting Lake Michigan beaches for the International Coastal Cleanup and trips to Discovery World.

The cost of pre and post materials to better align fieldtrip with NGSS classroom curriculum is included in the costs. Pricing shall be held firm for the length of this Contract.

A complete description of available programs and pricing for all programs is hereby incorporated by reference as Exhibit A.

Contractor shall provide, at its own expense, all personnel, supplies, and equipment required to perform the services under this Contract.

2. TERM

This Contract shall be in effect from September 1, 2022 through August 31, 2025.

No work shall commence before a Contractor receives a fully executed Contract and has been given approval to proceed. Any work performed by the Contractor prior to obtaining a fully-executed Contract with approval to proceed shall not be compensated pursuant to this Contract. Any continuation of the Contract beyond this term must be set forth in writing and signed by the original signatories to the Contract.

3. COMPENSATION

Total compensation under this Contract shall not exceed \$595,440. Total expenditures in year 1 shall not exceed \$174,840. Total expenditures in year 2 shall not exceed \$198,000. Total expenditures in year 3 shall not exceed \$222,600. The cost per half-day (3 hour program) field trip shall be \$235.00 in year 1, \$250.00 in year 2 and \$265.00 in year 3. The cost per full-day (6 hour program) field trip shall be \$470.00 in year 1, \$500.00 in year 2 and \$530.00 in year 3.

The schools utilizing the services will make individual encumbrances against the Blanket Contract. Contractor shall invoice each school twice annually 1) after 50% of programs have been completed 2) after 100% of programs have been completed. Since this is a comprehensive and customized partnership, the school shall pay semi-annually, not per field trip.

MPS reserves the right to determine in its sole discretion whether services have been adequately and fully delivered; to withhold payment until services are fully and adequately delivered; or to disallow a pro rata share of payments for services not fully and adequately delivered.

Milwaukee Public Schools does not pay in advance for services. No payment shall be made until a properly submitted invoice is approved. Invoices shall be submitted to the school contracting for the services.

A properly submitted invoice must include a detailed description of the dates and times worked, and the tasks performed. As a matter of practice, MPS attempts to pay all invoices in 30 days. It is mutually agreed that State Prompt pay law does not apply to this Contract.

Unless otherwise specified, MPS shall not pay invoices submitted more than 60 days after actual work. In the case of grant funding, no payments shall be made after grant close out. Final invoices must be marked as such.

4. NON APPROPRIATION OF FUNDS

This Contract is contingent upon the appropriation of sufficient funds by appropriate MPS officials. If funds are not appropriated, Contractor agrees to take back any commodities furnished under the Contract, terminate any services supplied to MPS under the Contract, and relieve MPS of any further obligations under the Contract.

5. NON-DISCRIMINATION

In the performance of work under this Contract, Contractor shall not discriminate in any way against any employee or applicant for employment on the basis of a person's sex, race, age, religion, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, disability, or socio-economic status. This prohibition includes but is not limited to employment; promotions, demotions and transfers; recruitment; advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeships. Contractor is required to include a similar provision in all subcontracts to this Contract.

If MPS determines Contractor has violated this non-discrimination policy, MPS may terminate this Contract without liability for undelivered services or materials. MPS may also deem the Contractor ineligible to participate in future contracts with MPS.

6. INDEMNITY

Notwithstanding any references to the contrary, Contractor assumes full liability for all of its acts or omissions in the performance of this Contract, as well as the acts or omissions of its subcontractors. Contractor shall indemnify and hold harmless MPS, its agents, officers and employees against all liabilities, losses, judgments, decrees, costs, and expenses that may be claimed against MPS as a result of granting of this Contract to said Contractor, or that may result from the carelessness or neglect of said Contractor, its agents, or employees. If judgment is recovered against MPS in suits of law or equity for any reason, including by reason of the carelessness, negligence, or acts or omissions of the Contractor, against such persons, firms or corporations carrying out the provisions of the Contract for the Contractor, the Contractor assumes full liability for such judgment, not only as to any monetary award, but also as to the costs, attorneys' fees or other expenses resulting therefrom.

Contract Requisition Number: CR056740 Contract Number: B0001509 Vendor Number: V0761001 judgments on behalf of its officers

In accordance with applicable laws, MPS shall be responsible for defending and paying judgments on behalf of its officers, employees and agents while acting within the scope of their employment or agency for any claims that may arise out of MPS's negligence for acts, policies, or directives that affect the activities covered by this Contract.

7. BACKGROUND CHECKS

Contractor will conduct, at Contractor's expense, a criminal information records background check, (hereinafter referred to as "background check"), through the Wisconsin Department of Justice and other appropriate states' agencies, on all current and potential administrators, board members, officers, and employees who have, or who are anticipated to have, "direct, unsupervised contact" with MPS students in the performance of this Contract.

An out of state background check should be completed in the state(s) in which the individual resided for at least six months within the last two years and was eighteen years or older at the time.

Contractor will submit to MPS's Department of Employment Relations (DER), (via mail to Milwaukee Public Schools Background Checks, Attn: Department of Employment Relations, Room 116, 5225 West Vliet Street, Milwaukee, WI 53208, or via email at <u>564@milwaukee.k12.wi.us</u>), all completed background checks. Such records will be reviewed and MPS will notify Contractor of any individual(s) who, based on MPS standards, are unfit and should not have contact with MPS students. All determinations made by MPS with regards to whether an individual is fit to provide services pursuant to this Contract are made in MPS's sole discretion.

The following will each be a material failure to comply with the terms of this Contract and cause for immediate termination of this Contract by MPS: failure to perform background checks as outlined in this Section 7; failure to submit background checks to MPS as outlined in this Section 7; allowing services to be provided by an individual who has not be subjected to a background check; and allowing services to be performed by an individual who has been determined to be unfit by MPS as outlined in this Section 7.

8. INSURANCE AND PROOF OF FINANCIAL RESPONSIBILITY

Contractor understands and agrees that financial responsibility for claims or damages to any person, or to Contractor's employees and agents, shall rest with the Contractor. Contractor and its subcontractors shall effect and maintain any insurance coverage, including, but not limited to, Workers' Compensation, Employers' Liability, General Liability, Contractual Liability, Automobile Liability and Umbrella Liability to support such financial obligations. The indemnification obligation, however, shall not be reduced in any way by existence or non-existence, limitation, amount or type of damages, compensation, or benefits payable under Workers' Compensation laws or other insurance provisions.

The minimum limits of insurance required of the Contractor by MPS shall be:

| Workers' Compensation | Statutory Limits |
|-----------------------------|--|
| Employers' Liability | \$100,000 per occurrence |
| General Liability | \$1,000,000 per occurrence/\$2,000,000 aggregate |
| Auto Liability | \$1,000,000 per occurrence |
| Umbrella (excess) Liability | \$1,000,000 per occurrence |

The Milwaukee Board of School Directors shall be named as an additional insured under Contractor's and subcontractors' general liability insurance and umbrella liability insurance. Evidence of all required insurances of Contractor shall be submitted electronically to MPS via its third party vendor, EXIGIS Risk Management Services. Waivers and exceptions to the above limits will be in the sole discretion of MPS and shall be recorded in the EXIGIS system, which records are incorporated into this Contract by reference. The certificate of insurance or policies of insurance evidencing all coverages shall include a statement that MPS shall be afforded a thirty (30) day written notice of cancellation, non-renewal or material change by any of Contractor's insurers providing the coverages required by MPS for the duration of this Contract.

9. SHIPPING /TAXES

If goods are provided pursuant to this Contract, please note that MPS is exempt from Federal Excise and Wisconsin Sales Taxes. All vendor quotes, bids and invoices must include delivery FOB destination to the MPS location receiving the goods and freight

Contract Requisition Number: CR056740 Contract Number: B0001509 Vendor Number: V0761001 must be prepaid. This means any freight, shipping, processing, handling or like charges must be part of a unit price. Any separate

line items for freight, shipping, processing, handling or like charges listed on an invoice will be deleted and NOT PAID.

All textbook purchases shall be governed by the terms and conditions in the Milwaukee Board of School Directors' Textbook Contract, which provides that textbooks shipped to MPS or its schools must be done at no additional charge to MPS or its schools.

MPS reserves the right to reject any items that do not conform to the bid, quote or Purchase Order. All return freight charges associated with the rejected materials shall be borne by the vendor.

10. IRREPARABLE HARM

It is mutually agreed the breach of this Contract on Contractor's part shall result in irreparable and continuing damage to MPS for which money damages may not provide adequate relief. Therefore, the breach of this Contract on Contractor's part shall entitle MPS to both preliminary and permanent injunctive relief and money damages insofar as they can be determined under the circumstances.

11. TERMINATION BY CONTRACTOR

Contractor may, at its option, terminate this Contract upon the failure of MPS to pay any amount, which may become due hereunder for a period of sixty (60) days following submission of appropriate billing and supporting documentation. Upon said termination, Contractor shall be paid the compensation due for all services rendered through the date of termination including any retainage.

12. TERMINATION BY MPS - BREACH BY CONTRACTOR

If Contractor fails to fulfill its obligations under this Contract in a timely or proper manner, or violates any of its provisions, MPS shall thereupon have the right to terminate it by giving five (5) days written notice before the effective date of termination of the Contract, specifying the alleged violations, and effective date of termination. The Contract shall not be terminated if, upon receipt of the notice, Contractor promptly cures the alleged violation with five (5) days. In the event of termination, MPS will only be liable for services rendered through the date of termination and not for the uncompleted portion, or for any materials or services purchased or paid for by Contractor for use in completing the Contract.

13. TERMINATION BY MPS

MPS further reserves the right to terminate this Contract at any time for any reason by giving Contractor written notice by Registered or Certified Mail of such termination. MPS will attempt to give Contractor 90 days' notice, but reserves the right to give immediate notice. In the event of said termination, Contractor shall reduce its activities hereunder, as mutually agreed to, upon receipt of said notice. Upon said termination, Contractor shall be paid for all services rendered through the date of termination, including any retainage. This section also applies should the Milwaukee Board of School Directors fail to appropriate additional monies required for the completion of the Contract.

14. INDEPENDENT CONTRACTOR

Contractor agrees and stipulates that in performing this Contract, it is acting as an Independent Contractor, and that no relationship of employer and employee, partnership or joint venture is created by this Contract. Contractor has exclusive control over work hours, location, and other details of such services, and MPS's sole interest is to ensure that said service shall be performed and rendered in a competent, safe, efficient, timely and satisfactory manner in accordance with the terms of this Contract.

Contractor has the sole obligation to provide for and pay any contribution or taxes required by federal, state or local authorities imposed on or measured by income. Contractor specifically covenant not to file any complaint, charge, or claim with any local,

state or federal agency or court in which Contractor claims to be or to have been an employee of MPS during the period of time covered by this Contract and that if any such agency or court assumes jurisdiction of any complaint, charge or claim against MPS on Contractor's behalf, Contractor will request such agency or court to dismiss such matter. MPS shall not be charged any obligation or responsibility whatsoever of extending any fringe benefits which may be extended to MPS employees, including any insurance, or pension plans.

Contractor further agrees that MPS is not to be charged with the obligation or responsibility of extending any fringe benefits such as hospital, medical and life insurance, or pension plans which may be extended to employees of MPS from time-to-time and further agree to indemnify and hold harmless MPS and all its employees, officers and agents from any liability for personal injuries, including death, or for damage to or loss of personal property, which might occur as a result of the performance of the services provided for under this Contract.

15. ASSIGNMENT LIMITATION

This Contract shall be binding upon and inure to the benefit of the parties and their successors and assigns; provided, however, that neither party shall assign its obligations hereunder without the prior written consent of the other.

16. PROHIBITED PRACTICES

- A. Contractor during the period of this Contract shall not hire, retain or use for compensation any member, officer, or employee of MPS to perform services under this Contract, or any other person who, to the knowledge of Contractor, has a conflict of interest.
- B. Contractor hereby attests it is familiar with MPS's Code of Ethics, providing in pertinent part, "[a]n employee of Milwaukee Public Schools may not accept any gift or gratuity in excess of \$25.00 annually from any person, persons, group or any firm which does business with or is attempting to do business with MPS."
- C. No person may enter into this Contract for services that the MPS employee would otherwise perform as an employee.
- D. No current or former MPS employee may perform services on a professional services contract without the prior written consent of the MPS Chief Human Capital Officer or his/her designee.
- E. If the Contract is for apparel for \$5,000.00 or more, the Contractor agrees to provide only items manufactured by responsible manufacturers. Contractor is required to include a similar provision in all subcontracts to this Contract.

17. LIVING WAGE REQUIREMENT

Contractor shall comply with, and ensure its subcontractors performing work under this Contract comply with, Milwaukee Board of School Directors' Administrative Policy 3.09(17), which requires that employees be paid a "living wage."

18. NOTICES

Notices to either party provided for in this Contract shall be sufficient if sent by Certified or Registered mail, postage prepaid, addressed to the signatories on this Contract, or to their designees.

19. WAIVER

The waiver or failure of either Party to exercise in any respect any rights provided for in this Contract shall not be deemed a waiver of any further right under this Contract.

20. INTEGRATION / SEVERABILITY

This Contract and its exhibits and addenda, if any, constitute the entire Contract among the Parties with respect to the subject matter hereof and supersede all prior proposals, negotiations, conversations, discussions and Contracts among the Parties concerning the subject matter hereof. No amendment or modification of any provision of this Contract shall be effective unless the same shall be in writing and signed by both Parties.

The District shall not be bound by any terms and conditions included in of Contractor's packaging, service catalog, brochure, technical data sheet or other document which attempts to impose any conditions at variance with or in addition to the terms and conditions contained herein.

If any term or provision of this Contract should be declared invalid by a court of competent jurisdiction or by operation of law, the remaining terms and provisions of this Contract shall be interpreted as if such invalid Contracts or covenants were not contained herein.

21. CHOICE OF LAW & FORUM

The state courts of Wisconsin shall be the sole forum for all disputes arising of this Contract. The validity, construction, enforcement and effect of this Contract shall be governed solely by the laws of the State of Wisconsin.

22. TIMING

Time is of the essence in this Contract.

Contract Requisition Number: CR056740 Contract Number: B0001509 Vendor Number: V0761001

23. CERTIFICATION REGARDING DEBARMENT OR SUSPENSION

Contractor certifies that neither Contractor or its principals; its subcontractors or their principals; the sub-recipients (if applicable) or their principals are suspended, debarred, proposed for debarment, voluntarily excluded from covered transactions, or otherwise disqualified by any federal department or agency from doing business with the Federal Government pursuant to Executive Orders 12549 and 12689. Contractor specifically covenants that neither the Contractor or its principals, its sub-contractors or their principals, or the sub-recipients (if applicable) or their principals are included on the Excluded Parties List System ("EPLS") maintained by the General Services Administration ("GSA").

24. FORCE MAJEURE

MPS will not be liable to pay Contractor for any work that the Contractor is unable to perform due to act of God, riot, war, civil unrest, flood, earthquake, outbreak of contagious disease or other cause beyond MPS's reasonable control (including any mechanical, electronic, or communications failure, but excluding failure caused by a party's financial condition or negligence).

25. STUDENT DATA

Contractor acknowledges that student data is protected by both federal and state law. *See* Wis. Stat. § 118.125; 20 U.S.C. § 1232g(b); 34 C.F.R. § 99.1 *et seq*. If MPS determines that Contractor has disclosed any student record information in violation of either federal or state law, without prejudice to any other rights or remedies the MPS may have, MPS shall be entitled to immediately terminate this and every other existing Contract without further liability. Moreover, MPS may bar Contractor from future MPS contracts for varying periods up to and including permanent debarment.

26. NON-DISCLOSURE

Absent prior written consent of the person listed in Section 3 or his/her designee, Contractor shall not: (1) disclose, publish, or disseminate any information, not a matter of public record, that is received by reason of this Contract, regardless of whether the Contractor is or is not under contract at the time of the disclosure; or (2) disclose, publish, or disseminate any information developed for MPS under this Contract. Contractor agrees to take all reasonable precautions to prevent any unauthorized use, disclosure, publication, or dissemination of the same information.

All information and any derivatives thereof, whether created by MPS or Contractor under this Contract remains the property of MPS and no license or other rights to such information is granted or implied hereby. For purposes of this Contract, "derivatives" shall mean: (i) for copyrightable or copyrighted material, any translation, abridgment, revision, or other form in which an existing work may be recast, transformed, or adapted; and (ii) for patentable or patented material, any improvement thereon.

Within ten business days of the earlier of receipt of MPS' written or oral request, or final payment, Contractor will return all documents, records, and copies thereof it obtained during the development of the work product covered by this Contract.

27. MPS LOGO/PUBLICITY

No Contractor shall use the MPS Logo in its literature or issue a press release about the subject of this Contract without prior written notice to and written approval of MPS's Executive Director of Communications & Outreach.

28. ORDER OF PRIORITY

Should Contractor and MPS sign Contractor's Contract in addition to this Contract, the terms set forth in this Contract shall govern in the event of a conflict.

29. PUBLIC RECORDS

Both parties understand that the Board is bound by the Wisconsin Public Records Law, and as such, all of the terms of this Contract are subject to and conditioned on the provisions of Wis. Stat. § 19.21, *et seq.* Contractor acknowledges that it is

obligated to assist the Board in retaining and producing records that are subject to Wisconsin Public Records Law, and that the failure to do so shall constitute a material breach of this Contract, and that the Contractor must defend and hold the Board harmless from liability under the law. Except as otherwise authorized, those records shall be maintained for a period of seven years after receipt of final payment under this Contract.

30. CONTRACT COMPLIANCE REQUIREMENT

The HUB requirement on this Contract is 0%. The student engagement requirement of this Contract is 1200 hours per 36 month contract term. The Career Education requirement for this Contract is 30 hours per 36 month contract term. Failure to achieve these requirements may result in the application of some or all of the sanctions set forth in Administrative Policy 3.10, which is hereby incorporated by reference.

Contract Requisition Number: CR056740 Contract Number: B0001509 Vendor Number: V0761001

| | Vendor Number: V0761001 |
|--|---|
| IN WITNESS WHEREOF, the parties here to ha | ave executed this Contract on the day, month and year first above written. |
| CONTRACTOR (Vendor #: V0761001 |) MILWAUKEE BOARD OF SCHOOL DIRECTORS |
| By: Ed Krishok Managing Director | By: Janine Adamczyk, Director Procurement & Risk Management |
| Date: | Date: |
| Urban Ecology Center 1550 E Park Place Milwaukee, WI 53211 (414) 964-8505 | By: <u>NOT REQUIRED</u> Keith P. Posley, Ed.D. Superintendent of Schools |
| | Date: |
| SSN / FEIN: | |
| Budget Code: 000-0-0-000-BL-ECTS | By: <u>NOT REQUIRED</u> Robert E. Peterson, President Milwaukee Board of School Directors |
| | Date: |
| Ву: | Date: |
| Insurance Compliance | |

EXHIBIT A



5/16/22

BOARD OF DIRECTORS

PRESIDENT Edward Hammond

VICE PRESIDENT Callan Schoonenberg

TREASURER Daniel Van Housen

SECRETARY Antoine McDuffie

MEMBERS

lan Abston Pete Campbell John Clancy Eric Crawford Penny Cruse Julia Fennelly David Froiland Lucia Loza Galezewski Steve Giles Cynthia Gonzalez Dennis Grzezinski Tony Haning **Brett Heaton Juarez** Christopher Hermann Jenna Kunde Jennifer Lopez Kent Lovern **Rebecca** Mitich Judge Derek Mosley Kate Nelson Troy Pfaff Jeff Spence Sara Wilson Mary Gute Witte Catherine Wittig

EXECUTIVE DIRECTOR

Ken Leinbach

MANAGING DIRECTOR Ed Krishok Addendum to Urban Ecology Center Blanket Contract Renewal

The Urban Ecology Center is committed to providing high-quality environmental education programs through our Neighborhood Environmental Education Project. We have enjoyed the strength of our partnership with Milwaukee Public Schools and look forward to continued commitment and engagement with students at Milwaukee Public Schools. In an effort to provide further context, below is a breakdown of annual program rates and capacity, along with an overview funding support for total program costs.

1. Annual program rates and capacity

The Urban Ecology Center cost for services are based on a per program rate. The rate increases annually to offset the cost of inflation. We will also be increasing our capacity to serve more schools during the course of this contract. As we transition out of pandemic program regulations, we will be gradually increasing our capacities at each branch during the 2022-2023 and 2023-2024 school years. During the 2024-205 school year, we will be able to increase the number of schools served at our Washington Park Branch due to the completion of a building renovation project.

Each school is able to book approximately 24 programs a year based on our current program model. We will work with each school individually to create an annual program schedule that meets the needs of their teachers and students, which may include a full day field trip that is the equivalent of two programs.

| Year | # Schools | Approx. # programs per school | Total # of programs | Cost per program | Total MPS Cost |
|-----------|-----------|-------------------------------------|------------------------|---------------------|----------------|
| 2022-2023 | 31 | 24 | 744 | \$235 | \$174,840 |
| 2023-2024 | 33 | 24 | 792 | \$250 | \$198,000 |
| 2024-2025 | 35 | 24 | 840 | \$265 | \$222,600 |
| | | | | | \$595,440 |

2. Funding support for total program costs

Program rates only cover part of the total costs to deliver our programs. The Urban Ecology Center is committed to fundraise as a means to offset the total costs of our programs, allowing reasonable fees for our programming. An estimate of total program costs for 2022-2025 are projected below:

| Year | Total program cost (est.) | UEC Fundraising | Total MPS Cost |
|-----------|---------------------------|-----------------|----------------|
| | | Support | |
| 2022-2023 | \$550,000 | \$375,160 | \$174,840 |
| 2023-2024 | \$620,000 | \$422,000 | \$198,000 |
| 2024-2025 | \$680,000 | \$457,400 | \$222,600 |
| | | | \$595,440 |

URBAN ECOLOGY CENTER

| | | ç | easor | Т | | Crosscut | ting C | oncent | 5 | | Scie | ence a | nd Engi | neerin | g Prac | tices | SEL Competencies | | []] | |
|-------------------|------------------------------------|--------|-------|----------|-------|----------|-----------------|-----------|----------|--------------------|----------|----------------------|---|--------|--------|-------|---------------------|--|--|--|
| Grade | Title | Autumn | | - Spring | Cause | Sc | Energy & Matter | | St | Stability & Change | | Develop & use models | Planning & carrying out investigations | 7 | 1 | 0 | | Learning Objective | General Description of Service | |
| КЗ-К5 | PEEP programs | x | x x | : | | Varies | with gr | rade leve | el and e | educatio | on goals | s provic | led by te | eacher | | | x | Connect early learners with science and nature in their neighborhoods and inspire them to engage with the natural world together. | In-school or field trip developed with age appropriate activities. Specific topics informed by school goals and seasons. | |
| K4-High School | Create A Program | x | x > | 5 | | Varies | with gr | rade leve | el and e | educatio | on goals | s provic | led by te | eacher | | | | Varies with grade level and education goals provided by teacher. | Schools provide a topic or educational goal, or NGSS Standard(s) and we will create a program for your directly related to what the students are studying in school. | |
| | Naturalist's Choice | x | x x | : | | Varies | with gr | rade leve | el and e | educatio | on goals | s provic | led by te | eacher | | | | Varies with grade level and education goals provided by teacher. | Urban Ecology Center educators will choose a program appropriate to the season and natural happenings in the park. | |
| K4-2nd | Nature Play | x | х х | (| | Varies | with gr | rade leve | el and e | educatio | on goals | s provic | led by te | eacher | | | x | Varies with grade level and education goals provided by teacher. | Celebrate the seasons with place-based activities and outdoor exploration in our natural areas. | |
| 3rd-5th | Let's Be Explorers | x | × × | 1 | х | | | | | | x | | | | | | x | Varies with grade level and education goals provided by teacher. | Students will explore outdoors through inquiry-based activities in our natural areas to investigate seasonal changes. Activities may include using tools such as maps, hiking, dimbing and investigating natural niches. | |
| 3rd - 8th | Service Learning | x | x > | : | | Varies | with gr | rade leve | el and e | educatio | on goals | s provic | led by te | eacher | | | x | Varies with grade level and education goals provided by teacher. Varies with grade level and education | Give your students the opportunity to give back to their community. We will design an educational service learning field trip, or incorporate service learning into one of our other programs. Students will experience nature as the perfect setting for practicing and learning more about their social and emotional | |
| 6th-8th | Mindfulness in Nature | x | × × | ((| | | | rade leve | | | | | | | | | x | goals provided by teacher. | skills. Students will experience adventure-based activities that may include hiking, canceing, snowshoeing, rock climbing, biking, orienteering and exploration of other natural spaces in the area. | |
| | Beetles, Ants, and Flies, Oh My | x | > | (| | | | | x | | x | | | | | | | Connect science to their world by observing objects to learn systems, order and organization. | Find out what makes a bug a bug through stories and activities. Use tools such as nets, lenses and others to take a closer look at the life in the park. Visit the animal classroom and learn | |
| | Creatures of the Water | x | x > | × | ¢ | | | | x | | x | | | | | | | Introduce students to native aquatic animals and learn how and why these animals live in water. | about native aquatic animals. Discover how they survive underwater. | |
| К4 | Nature's Palette | x | x x | x | ¢ | | | | | | x | | | | | | | Color awareness in nature | Students will practice observation skills by searching for shapes and colors on a hike through the park. | |
| | Sensory Awareness | x | x× | × | ¢ | | | | | | | | | x | | | | Use 5 senses to improve observation skills | Students sharpen their senses while becoming more aware of the natural world. They will focus on each of the five senses. Working in teams, they will practice listening, smelling, tasting, touching and seeing in a natural setting. | |
| | Animal Homes | x | x > | (x | ¢ | | | | x | | | x | | | | | | Understand habitats and homes used by animals. | Students will get a chance to explore animal habitats up close using observations. They may also build an animal home themselves. | |
| | Caterpillar to Butterfly | x | > | (| | | | | | x | | x | | | | | | Identify characteristics of living things | Students will learn about butterfly habitat, adaptations and life cycle. Students will participate in hands-on activities and search for butterflies in the park. | |
| К5 | The Fabulous 4 Seasons | x | x> | (x | ¢ | | | | | | | | | x | | | | Introduce students to the characteristics of the four seasons | Students will discover what makes the current seasons special by exploring season changes in the park, playing educational games and participating in other hands-on activities | |
| | Fantastic Frogs | x | > | (x | ζ | | | | x | | | | | | | | | Identify characteristics of living things; observe changes in the environment | Follow the life cycle of frogs as they grow from eggs to tadpoles to full grown fly-snatchers. Students will learn all about what makes frogs special through a variety of fun activities. If it's warm enough in spring and fall, look for more out in the park! | |
| | Pushes and Pulls | x | х > | (| x | | | | | | | | x | x | | | | Introduce students to the differences in push and pull forces | Students will do experiments pushing and pulling with different amounts of strength. Experiments will be done inside and outside. | |

| | | | | | | | | | r | | | | - | | | 1 | | |
|-----|-------------------------------|---|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | Weather | x | x x | x | | | | | | | | | | x | | | Observe and measure weather conditions and patterns of weather. | Students will explore the weather in their local park by making observations, using tools and learning new vocabulary. |
| | Animals in Winter | | x | | | | | x | | | | | | | x | | Identify characteristics of living things and learn how animal survive the winter Observe and describe movement of | winter animals, the shelters they use, and perhaps, build some of our own! Students will make observations of the day's weather and discover how it connects to the movement of the |
| | Earth on the Move | x | x x x x | x | | | | | x | | | | x | x | | | earth in relation to our solar system Identify characteristics of different living things and their unique habitats | earth. Students will discover the habitats that these animals live in and explore what traits they have to help them survive their unique habitat. They may also meet native live animals in our animal room! |
| 1st | Life Cycles | x | x | x | | | | | | x | | | | | x | | Introduce students to inheritance of trails of plants and animals | Students will examine the life cycles of several native Wisconsin organisms. Explore a plant's story from seed to tree and observe plants and animals at various stages in their life cycles on an outdoor expedition. |
| | Music of Nature | x | x x | x | | | | | | | | | x | | | | Create sound and music using simple instruments | Students will be introduced to nature- inspired instruments and nature- themed songs. On a hike they will listen to sounds in nature and create music using instruments based on what they observed outdoors. |
| | Plant Power | x | x | | | | | | x | | | x | | | | | Introduce students to the variety of plants found in nature | By discovering the variety of plants living within a park, students will learn the parts of plants and their functions. They will hunt for different kinds of plants on a hike and do activities to learn what plants need to survive. |
| | Spiders that Spin | x | x | | | | | | x | | | x | | | | | Explore senses and learn about animal adaptation | Students will discover the amazing skills and characteristics of spiders. They will explore a spider's sensory system and look for spiders on a hike. |
| | Build It | x | x x | | x | | | | x | | | | | x | | | Learn that materials have specific properties, making them useful for different tasks | Students will conduct experiments on different materials to test their properties. They will use what they learned to build something – a bridge, bird nest, building, etc – to solve a problem inside and outside. |
| | Busy Bees and Butterflies | x | x | | | | | | x | | | | | x | | | Identify pollinating insects and their adaptations | Students will find out as what it means to be a pollinator. They will participate in hands-on activities and search for bees, caterpillars and butterflies in the park. Using models and exploring the park, |
| | Landforms | x | x x | | | | | | x | x | | | | | x | | Identify landforms and understand how natural forces shape the land. | students will learn how the surface of the earth changes over time and identify landforms such as valleys, hills, rivers and more! |
| 2nd | Life in the Pond | x | x | | | | | | x | | | | x | | | | Study water organisms and their adaptations to their aquatic ecosystem | Focusing on animal observation and identification, students will collect organisms from the pond, river or lagoon and discuss their adaptations. |
| | Rock and Roll | x | x x | x | | | | | | x | | | | | | | Identify the properties of earth materials, such as the size, shape and texture of rocks and minerals | Learn about different types of rocks and minerals, how they were formed and used. Explore and identify various rocks in natural and human made environments |
| | Soil Sleuths | x | x | x | | x | x | | | | x | | | | | | Learn the process of soil formation and identify decomposers | Students will examine soil characteristics and study the Urban Ecology Center's soil factories - worms in our vermicomposting systems. |
| | Solids, Liquids, and Gases | x | x x | x | x | | | | | | | | x | | | | Understand that substances exist in different states | Through hands-on activities and demonstrations, students will identify the properties of matter and observe solids, liquids and gases in nature. |
| | Birds of a Feather | x | x x | x | x | | | | | | | | | | x | | Observe animal adaptations and identify birds | Using binoculars and identification keys, students will identify and study the unique adaptations of birds. Students learn plant structure, dissect |
| | Botanical Basics | x | x | x | | | | | | | | x | | | | | Explore the parts of plants and learn about plant reproduction | flowers and other plant parts, and take a closer look at what they've found using hand lenses and microscopes. |

| | | | | _ | - | | | | | | | | | | | | | |
|------|--|--------|---------------------------------------|-------------|---|---|----------|----------|---|---|---|----------|---|---|--|---|--|--|
| 3rd | | | | | | | | | | | | | | | | | | Explore the complexities of an |
| 510 | | | | | | | | | | | | | | | | | | ecosystem through activities and |
| | | | | | | | | | | | | | | | | | | inquiries along the trail. Students will |
| | | | | | | | | | | | | | | | | | | make observations about the living |
| | | | | | | | | | | | | | | | | | Define and investigate ecosystems' | and non-living components of the |
| | Ecosystem Exploration | Х | X) | < | | | | х | | | | | х | х | | | living and non-living components | ecosystems we find in the park. |
| | | | | | | | | | | | | | | | | | | Working in small groups, students will |
| | | | | | | | | | | | | | | | | | | explore the forces of attraction and repulsion and do hands-on |
| | | | | | | | | | | | | | | | | | Introduce students to the basics of | experiments with magnets indoors |
| | Magnetism | х | x | < | × | | | | | | x | | | | | | magnetic repulsion and attraction | and out. |
| | | | | | | | | | | | | | | | | | | Using learning stations and |
| | | | | | | | | | | | | | | | | | | observations, students will make |
| | | | | | | | | | | | | | | | | | Learn the physics concepts of | predictions about how different |
| | Motion of Play | х | x) | < x | x | | | | | | | | x | | | | Newton's 1st, 2nd, and 3rd Laws | forces cause motion. |
| | | | | | | | | | | | | | | | | | | Through observations and |
| | | | | | | | | | | | | | | | | | | explorations, students will discover |
| | | | | | | | | | | | | | | | | | | the origins of common objects. Trace |
| | | | | | | | | | | | | | | | | | | the natural resources in objects from |
| 3rd | | | | | | | | | | | | | | | | | | their beginnings to the final product. |
| | Natural Resources | | | | | | | | | | | | | | | | | Explore the local park for natural |
| | Origins of Stuff | х | x) | < | | | x | | | | | | | х | | X | natural resources and energy. | resources. |
| | | | | | | | | | | | | | | | | | | Learn basic taxonomy skills by |
| | | | | | | | | | | | | | | | | | | identifying characteristics of animals. |
| | | | | | | | | | | | | | | | | | | Students will be able to distinguish |
| | | | | | | | 1 | 1 | | | | | | | | | | between the five main vertebrate |
| | | L | | | | | 1 | 1 | | | | | | | | | Outline animal characteristics and | phyla fish, amphibians, reptiles, birds |
| ┣─── | Where Do You Fit In? | х | x) | (X | _ | - | | <u> </u> | | | — | | | x | | | determine how they are grouped | and mammals. |
| | | | | | | 1 | 1 | 1 | | | | | | | | | | Through demonstrations and small |
| | | 1 | | | 1 | 1 | 1 | 1 | 1 | | | | | | | | | Through demonstrations and small group work, students explore |
| | | 1 | | | 1 | 1 | 1 | 1 | 1 | | | | | | | | | electricity in a variety of situations |
| | | | | | | 1 | 1 | 1 | | | | | | | | | | and piece together how invisible, but |
| | Electricity | х | x | < | | | x | | | | | | x | | | x | Introduce the concept of electricity | important, electric currents work. |
| | | | | | | | | | | | | | | | | | | Students will learn about different |
| | | | | | | | | | | | | | | | | | | kinds of maps, then use a map to go |
| | Mapping Pieces of the Past | ~ | v . | , | | | | | | | | | | | | | Learn mapping skills and the history of an historical neighborhood park | on a historical adventure through the park. |
| | rasi | Â | ^ / | <u>`</u> | | ^ | | | | | | | | ^ | | | or an instorical neighborhood park | Students will explore animal senses |
| | | | | | | | | | | | | | | | | | Learn animal adaptations and their | and learn how these senses are used |
| | Owl Eyes, Rabbit Ears | х | x | < | | | | x | | | | x | | | | x | specific uses | for survival. |
| | | | | | | | | | | | | | | | | | | Through a series of fun, "larger-than- |
| | | | | | | | | | | | | | | | | | Fundamenta de la constitución de la constitución de | life" experiments, students discover |
| | Simple Machines | x | x | <i>.</i> | × | | | | x | | | | × | | | | Explore the function of six simple machines | the advantages of the six simple machines |
| | Simple Machines | ~ | ~ / | ` | ~ | | | | Â | | | | ^ | | | | indennes | indennes |
| | | | | | | | | | | | | | | | | | | Animals have different skull, skin, and |
| 4th | | | | | | | | | | | | | | | | | | bone structures that help them |
| | | | | | | | | | | | | | | | | | | survive. Through hands-on |
| | | | | | | | | | | | | | | | | | | exploration of various animal skulls, |
| | Skulls, Skins, and | | | | | | | | | | | | | | | | | skins, and their tracks, students will learn how animals survive due to |
| | Bones | х | x | < | | | | x | | | | x | | | | x | Learn about animal adaptations | their unique adaptations. |
| | | | | | | | | | | | | | | | | | · · · · | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | Study and identify the three types of |
| | | | | | | | | | | | | | | | | | | rocks and fossils. If time and weather allows, we may explore the shoreline |
| | | | | | | | | | | | | | | | | | | of Lake Michigan looking for the |
| | | | | | | | | | | | | | | | | | | different types of rocks and clues to |
| | | | | | | | | | | | | | | | | | | the story of the glacial formation of |
| | | | | | | | 1 | 1 | | | | | | | | | | the lake and area landforms. Indicate |
| | | 1 | | | 1 | 1 | 1 | 1 | | | | | | | | | | on your registration form if you are |
| | | | | | | | 1 | 1 | | | | | | | | | | interested in this option. If your |
| | | | | | | | 1 | 1 | | | | | | | | | Study Wisconsin's glacial history and | school is more than 3 miles from Lake Michigan, please allow at least 3 |
| | | | | | | | 1 | 1 | | | | | | | | | learn the three different types of | hours for the field trip to go to the |
| | | | | . 1 | 1 | 1 | 1 | 1 | 1 | x | | x | x | | | | | |
| | Wisconsin Geology | х | x | < | | | | | | | | | | | | | rocks | lake . |
| | Wisconsin Geology | х | x | (| | | | | | | | | | | | | rocks | |
| | Wisconsin Geology | x | x | (| | | | | | | | | | | | | rocks | Students will search for evidence of |
| | Wisconsin Geology | x | x | (| | | | | | | | | | | | | rocks | Students will search for evidence of trophic levels and make connections |
| | Wisconsin Geology | x | x | (| | | | | | | | | | | | | rocks | Students will search for evidence of trophic levels and make connections between diversity and energy |
| | Wisconsin Geology | x | x | < | | | | | | | | | | | | | rocks | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of |
| | Wisconsin Geology | x | x | < | | | | | | | | | | | | | rocks Understand food webs and energy | Students will search for evidence of trophic levels and make connections between diversity and energy |
| | Wisconsin Geology Energy in Nature | x | x | < < | | | x | | | | | x | | | | | | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. |
| | | x | x > | < < | | | x | | | | | x | | | | | Understand food webs and energy | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. |
| | | x | x | < < | | | x | | | | | x | | | | | Understand food webs and energy | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. students will learn about how water moves through the four spheres of |
| | | x | x x x x | <u><</u> | | | x | | | | | × | | | | | Understand food webs and energy | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. students will learn about how water moves through the four spheres of the Earth geosphere, biosphere, |
| | | x | x x x x | < | | | x | | | | | x | | | | | Understand food webs and energy | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. students will learn about how water moves through the four spheres of the Earth geosphere, biosphere, hydrosphere, and atmosphere. |
| | | x | x x x x | < | | | x | | | | | x | | | | | Understand food webs and energy | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. students will learn about how water moves through the four spheres of the Earth geosphere, biosphere, |
| | Energy in Nature Four Spheres - Earth's | x | x x x x | < | | | × | | | | | x | | | | | Understand food webs and energy transfer in ecosystems Learn about the water cycle and | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. students will learn about how water moves through the four spheres of the Earth geosphere, biosphere, hydrosphere, and atmosphere. Continue the journey of water out in |
| | Energy in Nature | x | x x x x x x | χ. | | | x | x | | | | x | | x | | | Understand food webs and energy transfer in ecosystems | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. students will learn about how water moves through the four spheres of the Earth geosphere, biosphere, hydrosphere, and atmosphere. Continue the journey of water out in nature and investigate the |
| | Energy in Nature Four Spheres - Earth's | x | x x x x x x | < <u>,</u> | | | x | x | | | | x | | x | | | Understand food webs and energy transfer in ecosystems Learn about the water cycle and | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. students will learn about how water moves through the four spheres of the Earth geosphere, biosphere, hydrosphere, and atmosphere. Continue the journey of water out in nature and investigate the importance of water to people and animals. |
| | Energy in Nature Four Spheres - Earth's | x | x x x x | < <u> </u> | | | x | × | | | | <u>x</u> | | x | | | Understand food webs and energy transfer in ecosystems Learn about the water cycle and | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. Students will learn about how water moves through the four spheres of the Earth geosphere, biosphere, hydrosphere, and atmosphere. Continue the journey of water out in nature and investigate the importance of water to people and animals. On a hike, students will observe |
| | Energy in Nature Four Spheres - Earth's | x x | x x x x | < | | | x | x | | | | x | | x | | | Understand food webs and energy transfer in ecosystems Learn about the water cycle and | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. students will learn about how water moves through the four spheres of the Earth geosphere, biosphere, hydrosphere, and atmosphere. Continue the journey of water out in nature and investigate the importance of water to people and animals. On a hike, students will observe different microhabitats within a park |
| Sth | Energy in Nature Four Spheres - Earth's | x x | x x x x x x | < <u> </u> | | | x | x | | | | <u>x</u> | | x | | | Understand food webs and energy transfer in ecosystems Learn about the water cycle and | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. Students will learn about how water moves through the four spheres of the Earth geosphere, biosphere, hydrosphere, and atmosphere. Continue the journey of water out in nature and investigate the importance of water to people and animals. On a hike, students will observe |
| Sth | Energy in Nature Four Spheres - Earth's | x x | x x x x x x x x x x x x x x x x x x x | < <u> </u> | | | x | x | | | | x | | x | | | Understand food webs and energy transfer in ecosystems Learn about the water cycle and | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. students will learn about how water moves through the four spheres of the Earth geosphere, biosphere, hydrosphere, and atmosphere. Continue the journey of water out in nature and investigate the importance of water to people and animals. On a hike, students will observe different microhabitats within a park and create a food web. While thinking about producers, consumers, and decomposers, students will use |
| 5th | Energy in Nature Four Spheres - Earth's | x | x x x x x x x x x x x x x x x x x x x | < | | | x | x | | | | x | | x | | | Understand food webs and energy transfer in ecosystems Learn about the water cycle and earth's major systems. | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. Students will learn about how water moves through the four spheres of the Earth geosphere, biosphere, Continue the journey of water out in nature and investigate the importance of water to people and animals. On a hike, students will observe different microhabitats within a park and create a food web. While thinking about producers, consumers, and decomposers, students will use models to show possible interactions |
| Sth | Energy in Nature Four Spheres - Earth's | x | x x x x x x x x x x x x x x x x x x x | < | | | x | x | | | | <u>x</u> | | x | | | Understand food webs and energy transfer in ecosystems Learn about the water cycle and | Students will search for evidence of trophic levels and make connections between diversity and energy availability. Through a series of interactive lessons, they will show how energy flows through each layer of the ecosystem. students will learn about how water moves through the four spheres of the Earth geosphere, biosphere, hydrosphere, and atmosphere. Continue the journey of water out in nature and investigate the importance of water to people and animals. On a hike, students will observe different microhabitats within a park and create a food web. While thinking about producers, consumers, and decomposers, students will use |

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|--|---|---|--|--|---|--|--|--|--|--|---|---|--|--|--|--|---|--|---|
| Pond/River Ecology | x | | x | x | × | | | x | | | | | | x | | x | | Learn about the human impacts on water quality through ecologic study of aquatic creatures | Explore animal and aquatic adaptations along the shore of a local body of water. Students will collect macro-invertebrates, explore their adaptations, and learn about their relationship to the environment. |
| Sustaining Earth's Resources | x | x | x | | | | | x | | | | | | | | x | | Understand the impact of humans on Earth's resources | In this reflective, hands-on program, students will learn how we use the Earth's renewable and non-renewable resources to meet our needs. Students use maps to find hidden |
| Where Am I? | x | х | x | | | x | | | | | | | | x | | | | Discover the practical uses of maps | natural treasures while hiking through the park |
| Food for Thought | × | | x | | | | × | | | | | | | x | | | | Discuss healthy food choices | Explore how food provides energy for living things and what humans add to our food. Learn about sustainable foods and food choices. Learn to identify and sample (when possible) edible wild plants on a hike through the park. |
| Insect Adaptations | x | | x | | | | × | | x | | x | | | ~ | | | | Learn taxonomic characteristics of insects | Get up close to the six-legged creatures that live in your neighborhood. Learn the basics of insect adaptations and explore the roles insects play within a community. Collect and identify insects found in the park |
| Investigating Soils | x | x | x | | | | x | | | | | x | | | | | | Describe the cycle of matter and flow of energy between living and nonliving parts of ecosystems | Students will collect soil samples and use microscopes to explore how energy flows through life here on earth. Soil is a great place to dig in and practice science skills. |
| Microscopes and Cells | x | x | x | | | x | | | x | | | x | | | | | | Use microscopes to study the differences between different life forms on the cellular level | Students will explore various forms of life through the use of microscopes. By comparing different types of cells, students will learn key similarities and differences between plants and animals cells. They will collect natural items in the park to examine under microscopes. |
| Nature Journaling | x | x | x | x | | | | | | x | x | | | x | | | x | Practice asking questions and analyzing observations | Students will learn the importance of journaling for recording phenology (season changes) as well as for creative expression. After creating a journal from recycled materials, students will use journaling methods to convey thoughts, ideas, feelings and scientific observations in the outdoors. |
| Use the Force | x | x | x | | | | | x | | | | | x | | | | | Understand and describe Newton's 3rd Law | Students will use their knowledge of Newton's Laws of Motion, kinetic and potential energy, and unbalanced forces to do experiments and complete an engineering challenge. |
| Ways of the Watershed | x | x | x | | x | x | | x | | | | x | | | | x | | Understand watersheds and how they interact the landscape | Students will study landforms and water flow using topographic maps and discuss how human behavior affects the health of a watershed |
| Carrying Capacity and Extinction | x | x | x | | x | | | | | | | | | x | | | | Explore the basic concepts of population biology | Students will use models and activities to learn concepts of population biology, including carrying capacity and extinction. They will examine life history traits that determine how populations respond to environmental changes. Students will explore how human and animal populations interact |
| The Hidden Cost of Food | x | x | x | | x | | | | | | x | | | | | | | Learn about the impacts of biodiversity on humans' resources. | Students will draw connections between where their food comes from, what resources are required to produce it and the impact agriculture has on the environment and society as a whole. |
| Science of Weather | x | x | x | | x | | | x | | | | x | x | | | | | Understand weather patterns | Students investigate the processes that create weather. They will analyze patterns and explore the differences between weather and climate through hands-on inquiry. Students will practice the art of tree identification and ascess the |
| Tree Identification Types of Energy | x x | x x | x x | | x | | x | | | | | | | x | | | | Identify and understand the taxonomy of trees Introduction to the first law of thermodynamics and generation of electricity | identification, and assess the biodiversity of our parks through data. Students will learn the basics of electricity and use their own power to generate electricity. |
| | Sustaining Earth's Resources Where Am I? Food for Thought Insect Adaptations Investigating Soils Microscopes and Cells Microscopes and Cells Microscopes and Cells Use the Force Ways of the Watershed Carrying Capacity and Extinction The Hidden Cost of Food Science of Weather Tree Identification | Sustaining Earth's X Where Am I? X Where Am I? X Food for Thought X Insect Adaptations X Insect Adaptations X Investigating Soils X Microscopes and Cells X Nature Journaling X Use the Force X Watershed X Carrying Capacity and Extinction X The Hidden Cost of Food X Science of Weather X Tree Identification X | Sustaining Earth's x x Resources x x Where Am I? x x Food for Thought x x Insect Adaptations x x Investigating Soils x x Microscopes and Cells x x Microscopes and Cells x x Microscopes and Cells x x Nature Journaling x x Use the Force x x Watershed x x Carrying Capacity and Extinction x x The Hidden Cost of Food x x Science of Weather x x | Sustaining Earth's Resources X X X Where Am I? X X X Food for Thought X X X Insect Adaptations X X X Investigating Soils X X X Microscopes and Cells X X X Nature Journaling X X X Use the Force X X X Ways of the Watershed X X X Carrying Capacity and Extinction X X X The Hidden Cost of Food X X X Science of Weather X X X | Sustaining Earth's X X X Where Am 1? X X X Food for Thought X X X Insect Adaptations X X X Insect Adaptations X X X Investigating Soils X X X Microscopes and Cells X X X Nature Journaling X X X Value the Force X X X Ways of the X X X Watershed X X X Carrying Capacity and Extinction X X X Science of Weather X X X Tree Identification X X X | Sustaining Earth's x | Sustaining Earth's x x x x x x x x Where Am I? x x x x x x x Food for Thought x x x x x x x x Insect Adaptations x x x x x x x x Investigating Soils x x x x x x x x Microscopes and Cells x x x x x x x x Microscopes and Cells x x x x x x x x Microscopes and Cells x | Sustaining Earth's X | Sustaining Earth's X X X X X X X X Where Am I? X X X X X X X X X Food for Thought X X X X X X X X X Insect Adaptations X X X X X X X X X Investigating Solis X | Sustaining Earth's X | Sustaining Earth's Resources x | Sustaining Earth's Resources X | Sustaining Earth's x | Sustaining Earth's x | Sustaining Earth's X | Sustaining Earth's x | Sustaining Earth's Resources X | Surtaining Earth's R X | Non-there and years Y |

| | Climate Change | х | хх | | | | | | x | x | | | | | change | world greener and cleaner. | |
|-----|-------------------------------------|---|-----|---|---|---|---|---|---|---|---|---|---|---|--|---|--|
| | Climate Change | x | x x | | | | | | x | x | | | | | change Understanding Earth's processes | world greener and cleaner. Through "Decomposition Missions" and other outdoor discussions, students will connect matter and atoms to the natural world and gain an understanding of how matter | |
| | The Cycling of Matter | х | x x | | | x | | | | | x | | | | connected to matter and atoms | cycles throughout the environment. | |
| 8th | Ecosystem Services | x | x x | | x | | x | | x | | | x | | x | Introduction to ecosystem services | How do humans benefit from nature? Survey the park for real-life examples of ecosystem services. Using what they discover, students will construct an argument to support keeping the park in a natural state. | |
| | Making Waves Sound and Light | x | x x | x | | | | x | | | x | | | | Learn the properties of sound and light waves | Explore the mysteries of light and sound and their uses in nature through hands-on experiments and observations of sound and light outdoors. | |
| | Natural Selection and Adaptation | x | x x | | x | | | | | | | | x | x | Understand the process of natural selection and its role in adaptation | Taking on the roles of finches, students will experience how physical differences allow some individuals to thrive while others perish. They will collect and analyze data, constructing an explanation for how natural selection may lead to changes of traits in populations over time. Students will learn the basics of compass skills, play games to test | |
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