



# Big Learning® at Wyngate ES Science & Engineering

## Winter 2023: Mechanical Energy

In these explorations of mechanical energy, students do hands-on activities and experiments to investigate simple machines such as screws, levers, pulleys, and wheel and axle as well as electricity and circuitry. They collect data and observations in their Science Journal which they bring home after the final class.

### For Grades K-2: Incredible Forces

\$170

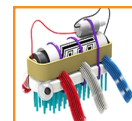
What does friction have to do with a rolling YoYo ? How do wheels and axles work together? How does the size of a wheel change the distance it covers? What can you move with a pulley? Make a circuit bug out of a clothespin and learn how a Bristle Bot moves?

### For Grades 3-5: Gadgets & Gizmos

\$170

Be an inventor! Make your own electric PlayDoh. Build a battery out of pennies and lemon juice, make a microphone out of a matchbox and paint, and construct a steady hand tester. Try your hand at copper plating and a device that looks as if it's defying gravity. Explore Bristle Bots and Color Bots.

*Winter classes meet Mondays for 8 weeks: Jan 9, 23, 30, Feb 6, 13, 27, Mar 6, 13*



## Spring 2023: Solar Energy and Ecology

### For grades K-2: Bubbles to Rainbow

\$165

Explore our very own star! How can we eat sunshine? How can you make ultraviolet beads change colors? What happens when bubbles heat up? How does a sundial work? Create your own sun print pictures with light sensitive paper. Find rainbows in your very own sun bouncer. Check out the heat keepers and what shadows tell us.

### For grades 3-5: Eco-KID

\$165

Each week young ecologists design and construct amazing habitats and explore plant and animal life cycles. Over the course of the session they will create a nesting cache, a grass scape, a wick-fed farm, and a salt water habitat for their own brine shrimp, among other projects. This program introduces students to the themes of sustainability, extinction, and biodiversity using our Knowledge Infused Design (KID) process.

*Spring classes meet Mondays for 8 weeks: April 17, 24, May 1, 8, 15, 22, Jun 5, 12*



*All classes meet from 4:00 pm to 5:00 pm at  
Wyngate ES*

Register and pay online at  
<https://biglearning.asapconnected.com/>

Children really enjoy showing and telling family about the experiments and activities they did in science class.

[www.biglearning.org](http://www.biglearning.org)  
[science@biglearning.org](mailto:science@biglearning.org)  
301-244-5254





INSPIRING CURIOSITY

# Big Learning® at Wyngate ES

## Foreign Language: FLES

### Foreign Language: FLES Winter 2023

#### **Spanish Beginner B or French Beginner B, grades 2-5**

**\$239**

*New and continuing* beginners explore another language together in a fun, informal, language immersion setting. Children will learn new vocabulary and expressions, gain confidence in listening and speaking and build a foundation for future language learning. Classes are taught by native speakers and include a workbook to strengthen early literacy skills. Hands-on activities encourage practical use of the language and expose children to aspects of culture from countries where the languages are spoken.

No prerequisite for this class.

**Spanish Winter Session topics include** New Year celebrations, alphabet, telling time, farm, sports and pastimes, prepositions, compass, counting to 100, typical breakfast foods, traditional folk instruments, carnival masks and artist-inspired animal figures.

**French Winter Session topics include** Carnival masks, sports and pastimes, the alphabet and vowels, telling time, animals on the farm, famous French artists, prepositions, typical breakfast foods, songs and cultural notes!

**12-week Winter Beginner classes meet Tuesday PM : Jan 17, 24, 31, Feb 7, 14, 21, 28, Mar 7, 13, 21, 28, Apr 11**



### Foreign Language: FLES Spring 2023

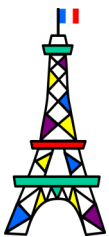
#### **For grades 2-5: Spanish Beginner B Extended or French Beginner B extended**

**\$165**

In this 8-week extended Beginner program, we'll continue to explore Spanish or French in a fun, informal, immersion setting. Join us for new topics and cultural notes with a spring and summer outdoors theme! Children will receive a new workbook and hands-on activities to strengthen early reading and writing skills in Spanish or French and to encourage practical use of the language.

Prerequisite: Students must have taken at least one Beginner session (Fall or Winter) this year to enroll in the extended class.

**8-week Spring Beginner classes meet Tuesday PM : Apr 18, 25, May 2, 9, 16, 23, 30, June 6**



**All language classes meet from 4:00 pm to 5:00 pm  
at Wyngate ES**

Register and pay online at  
**<https://biglearning.asapconnected.com/>**

**Open a window to a new language  
and culture and let the world in!**

**[www.biglearning.org](http://www.biglearning.org)  
[fles@biglearning.org](mailto:fles@biglearning.org)  
301-592-0861**