

Welcome to the latest edition of the SDPB Education Update Newsletter.

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1. Arts and Culture
2. Health, Wellness, and Fitness
3. Language Arts
4. Math
5. Science and Technology
6. Social Studies
7. Featured Events and Resources

1. Arts and Culture

Online Resources:

The Art of War

[Video](#)/ Grades: MS-HS

Since its early existence, art has always been a creative medium for telling stories and providing perspective. Famous painter, Harvey Dunn, used art to chronicle life from the prairies of South Dakota to the battlefields of World War one. As a combat artist, Dunn witnessed and captured the experience of war using paintings rather than pictures. Years later in the Vietnam war, two South Dakotans also followed a similar path. Their story examines the life of a combat artist, the legacy of Vietnam and the significance from the art of war.

Teach Your Way Activity Calendar: November

[Calendar](#)/ Grades: PreK-K, K-2

Stay organized this school year using this editable teacher planner from PBS KIDS including a monthly calendar with timely resources aligned to early learning themes and skills for PreK-2 students.

2. Health, Wellness, and Fitness

Online Resources:

Body Temperature, Sweat, and Fever

[Video and Activity](#)/ [Fever](#)/ [Sweat](#)/ Grade: 6-12

The Science of Keeping Cool - Learn how a cooling vest can help regulate body temperature in this video from NOVA: "Making Stuff Colder." Host and technology columnist David Pogue explores what heat is and how it moves from areas of higher temperature to areas of lower temperature.

Visiting the Dentist | Everyday Learning

[Video and Activity](#)/ [Additional Resources](#)/ Grades: PreK-K

Like any new experience, going to the dentist can be scary for preschoolers. In this video, two brothers take us on a trip to the dentist that explains what

is happening at every step. The older brother introduces the people who work in the office, describes their jobs, and explains how each instrument is used.

3. Language Arts

Online Resources:

Lesson: Correct Sentence Structure and Fluency

[Interactive Lesson](#)/ Grades: 6-8, 9-12

Good language and grammar practices are essential in writing for schoolwork or on the job. Proper language use will help to clearly communicate your ideas. In this lesson, students will focus on correct sentences, subject-verb agreement, and other aspects of grammar and language.

MARTHA SPEAKS Reading Buddies Program Guide

[Lesson Plan](#)/ Grades: K-2, 3-5

This cross-age reading program, using MARTHA SPEAKS videos, is an innovative way for kindergarten and upper-level elementary students to increase their vocabulary, develop their self-esteem and social skills, and enhance their love of books and reading.

4. Math

Online Resources:

Integrals | Crash Course Physics

[Video](#)/ Grades: 9-12

Shini leads us through the ways that integrals can help us figure out things like distance when we have several other key bits of information. Say, for instance, you wanted to know how far your window was off the ground. By using integrals, a tennis ball, and a stop watch, you can figure that out!

Investigating Tessellations Filling 2-D Space

[Lesson Plan](#)/ Related Lesson – [Irregular Shapes](#)/ Grades: K-2, 3-5

Students explore tessellating, the arrangement of shapes that can fill a plane with no overlaps or gaps.

5. Science and Technology

Online Resources:

NOVA: Beyond the Elements (Chemistry)

Three Part Series - Picking up where he left off in NOVA's popular special, Hunting the Elements, David Pogue sets out on a worldwide quest to find the key molecules and chemical reactions that have paved the way for human civilization, life, and even the universe as we know it. And along the way, he uncovers the simple principles that produce such a dizzying diversity of matter from elements on the periodic table.

- Episode #1: Reactions – Just about every solid, liquid, or gas in the world as we know it begins with reactions between individual atoms and molecules. Host David Pogue dives into the transformative world of chemical reactions, from the complex formula that produces cement to the single reaction that’s allowed farmers to feed a global population by the billions—a reaction that when reversed, unleashes the powerful chemistry of high explosives. ([Watch Online](#))
- Episode #2: Indestructible – Glass so strong you can jump on it, a rubber-like coating tough enough to absorb a bomb blast, endless varieties of plastic. Scientists and engineers have created virtually indestructible versions of common materials by manipulating the chains of interlocking atoms that give them strength—but have they made them too tough? Host David Pogue explores the fantastic chemistry behind the everyday materials we depend on, and how the quest for durability can be balanced with products’ environmental impact. ([Watch Online](#))
- Episode #3: Life – Without the chemistry of photosynthesis, ozone, and a molecule called Rubisco, none of us would be here. So how did we get so lucky? To find out, host David Pogue investigates the surprising molecules that allowed life on Earth to begin, and ultimately thrive. Along the way, he finds out what we’re all made of—literally. ([Watch Online](#))
- Explore More – Related App, video, and more! ([Online](#))

Why Is Pumpkin Spice So Good? | Spot on Science

[Video/ Related Lab Activity/](#) Grades: 3-5, 6-8

Pumpkin spice lattes, pumpkin spice cookies, pumpkin spice cereal... why is it in the fall we just can't get enough of the good stuff? Dig into the pumpkin spice craze with the science of flavor and the senses.

Is It Alive?

[Video and Question/](#) Grades: K-2, 3-5

Despite technological advances that have produced machines with lifelike qualities, most people can easily distinguish between what is living and nonliving. Or can they? This video includes some "fuzzy" examples that will make students question the meaning of life

6. Social Studies

Online Resources:

Veterans Day Resources from SDPB ([Updated Site](#))

[Website/](#) Upper Elementary-HS (View for Inappropriate Content)

Our Local Heroes website includes articles, videos, photos, interviews, and more for use in the classroom and at home.

Example Resources:

- [Vietnam War Survivor Stories](#)
- [Sioux Messengers](#) (Code Talker)
- [Pheasant Salad Sandwiches](#)

- [Dakota Pathways – The Homefront](#)

PBS Learning Media - Soldiers, Veterans, and War in American Life [Collection](#)/ Grades: Upper Elementary-HS (View of Inappropriate Content)

These videos, images, and media-rich lesson plans allow you to bring stories from the battlefield into American history, world history, and health classrooms.

The Election Collection

[Collection](#)/ Grades: MS-HS

Voting and elections are an essential part of democracy. Keep up with election news, study the history and process of elections, learn about voting rights, and engage in classroom debates with these videos, activities, and lesson plans.

Veterans & Changes

[Collection](#)/ PreK-Early Elementary

When parents transition out of military service, so do kids. Changes can be a real challenge—and days may seesaw between easy and quite bumpy. It's important to work together as a team and offer support in any way you can. With open communication and a little creativity, you can make children the heroes of an exciting new adventure.

7. [SDPB Television Schedules](#)/ [Children's Schedule](#)/ [SDPB Radio Schedule](#)/ [SDPB Video Player](#)

Featured Event and Resources:

South Dakota Highschool Activities:

SD High School All-State Chorus and Orchestra, Sioux Falls (October 28-29)

Both SDPB [Online](#) and **SDPB1 Television** ([SDPB1 Online](#)) will feature the concert.

Live on Saturday, October 29th, at 7:00pm CT

SDPB Learners Connection

[Website](#)/ Grades: All

SDPB Learners Connection provides free and readily accessible resources for Pre-K through High School children. The site brings together the powerful content of PBS Learning Media, with resources from across the country as well as access to local South Dakota learning content, complete with teacher and parent resources.

Special Instructional Television Programming Block

SDPB Channel 1 is now available online! - <https://www.sdpb.org/live/tv/>

2:00 pm CT, Weekdays/ Schedule (Ch 2.1 at 2:00 pm CT)

Mondays - **Dakota Pathways** (**Updated Site - SD History: 4th-HS**)

10/24 - [Finding a National Voice](#)/ [On Vacation](#)

10/31 - [The Home Front](#)/ [Cowboys On the Open Range](#)

Tuesdays - Biz Kids (Business/Economics - Upper Elementary-HS)

10/25 - [Money Really Does Grow On Trees](#)

11/01 - [Can Money Buy Happiness](#)

Wednesdays - Into the Outdoors

10/26 - [Savvy Sustainability](#)

11/02 - [Shooting Sports Challenge](#)

Thursdays - Curious Crew - (Science - Elementary - MS)

10/27 - Wind Power ([Watch/ Guides](#))

11/03 - [Structural Forces](#) (Watch/ [Guides](#))

Fridays - SciGirls

10/28 - [Atletas Maravillosos | Awesome Athletes](#)

11/04 - [Mejorando Procesos | Process Power](#)

General Viewing Resources - Adapt to Any Video

- Guide - [Taking TV Time to the Next Level](#)
- [Additional Discussion Questions](#)
- [Discussion Cards](#)

Programming Resources for PreK-Elementary (SDPB1-TV and SDPB4-TV - Both Available Online)

SDPB1-TV is our main channel (<https://www.sdpb.org/live/tv/>) and carries a day-time block of pre-school-elementary children's programming. The [schedule is color-coded for learning goals of the shows](#) (blue for STEM, green for Social Studies, etc.) and identification of the grade level (dots) are included.

SDPB4-TV is the PBS Kids channel offering children's educational programming - [Watch Online and Related Activities](#).

[Early Learning Initiative](#)/ PBS KIDS Shows Conversation Cards ([PDF-1](#)/[PDF-2](#)) Grade PreK-Elementary

****[SDPB Learners Connection \(Home or Classroom Learning\)](#)**** Home or Classroom Learning: SDPB is Here to Help All Students Succeed - We have created Learners Connection, a collection of FREE, online PreK-12 ed resources to help South Dakota students and teachers at home or in the classroom.

[Science Steve Events](#) are Supported by 3M, Avera, SDN Communications, and Black Hills Energy

-Educational Taping Rights (1 year for most programs)

-Please preview all of the programs and the activities for inappropriate content.

Educational and Online Services

South Dakota Public Broadcasting

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P.O. Box 5000; Vermillion, SD 57069

