

Science:

Unit One: Solid Earth

- recognize rocks, minerals, clay, boulders, fossils, water, sand, soil, gravel, and gasses
- recognize what materials can sustain both plant and animal life.
- understand the importance and concepts of erosion, weathering, landslides, earthquakes, glaciers and volcanoes.
- learn about materials in construction: glass, bricks, cement (roads), fuels, and fossil fuels.

Unit Two Properties of Matter

- physical properties of matter including metric measurements for weight, volume, and capacity.
- different states of matter. They will compare and contrast states of matters including solids, liquids, gasses and explain how matter can change through heating and cooling.

Unit Three: Energy

- Identify light and sound as forms of energy
- Light travels in straight lines and can be bent, reflected, and absorbed.
- Shadows are made by objects in the lines of light.
- Distinguish the effect of fast or slow (pitch) and loud or soft (volume) vibrations.
- Identify heat and electricity as forms of energy
- Demonstrate how temperature can be increased by adding energy
- Describe heat as energy produced when substance burn, certain material rub against each other, electricity flows through wire.
- Energy in a simple electrical circuit
- Know conditions necessary to create a simple electromagnet.
- absorption and reflection of light and how we need light to see objects. They will learn how light reflects off objects and enters our eyes.
- magnetic fields using iron filings.
- identify good and poor conductors of heat and electricity.

Fourth graders at Westwood begin to become independent learners who are expected to be responsible for their attitudes, behaviors, work, and learning. They are tested for the first time on the Michigan Educational Assessment Program (MEAP). With teacher guidance, they become responsible for their class work and assignments at home.

Students learn best if they are able to also experience the world around them. To that end, we participate in field trips whenever possible and encourage participation in the community.

Fourth graders participate in art, music, physical education, library, and receive instruction in and using technology.



Portland Public Schools

Westwood Elementary School
883 Cross St.
Portland, MI 48875

www.portlandk12.org/westwood

Portland Public Schools

By the end of
FOURTH GRADE
Portland
students will
learn...



Portland Public Schools Westwood Elementary

883 Cross St.
Portland, MI 48875
(517) 647-2989

English/Language Arts:

- I can read a variety of classic and contemporary literature to recognize story elements.
- I can analyze reading selections to determine author's, illustrator's or speaker's purpose, craft and voice.
- I can examine the characteristics, sequence of events, and cause and effect relationships in biographies and autobiographies.
- I can read and analyze narrative and informational texts to identify theme or main idea.
- I can compose a legible business letter using the correct format.
- I can write an informational report by using the six traits of writing - ideas, organization, sentence fluency, conventions, word choice, and voice.
- I can write an extended response to a prompt while making connections between stories and/or to own experiences.
- I can correctly spell words in written work and correctly use content-related vocabulary words.
- I can deliver a presentation on an informational topic, focusing on effective delivery techniques and using a visual aid.
- I can listen to a text and construct meaning by using various strategies.
- I can research issues using 2-3 different resources.

Math:

Arrays, multiples, and factors

- Represent multiplication with arrays.
- Become fluent with multiplication combinations up to 12×12 .
- Find factors & multiples of given numbers.

Shape of the Data

- Record, organize, and represent data.
- Compare data based on evidence from different sets of data.
- Describe probability using such words as certain and impossible.

Multiple Towers and Division Stories

- Break apart 2-digit multiplication problems.
- Solve and represent division story problems

Size, Shape, Symmetry

- Estimate and measure length (U.S., metric)
- Identify attributes of polygons.
- Identify, construct, and measure angles.
- Find the area of different polygons.

Landmarks and Large Numbers

- Understand and utilize place-value concepts up to 10,000.
- Add and subtract accurately and efficiently using various methods including the U.S. algorithm.

Fractions and Decimals

- Find fractional parts of the area of rectangles and of groups of objects.
- Add fractions with like/unlike denominators
- Place fractions on a number line.
- Compare and add decimals (tenths, hundredths).

Solids and Silhouettes

- Describe properties and attributes of geometric solids based on silhouettes.
- Find the volume of rectangular prisms.

Packages and Groups

- Estimate and solve products of 2-digit by 2-digit multiplication.
- Write story contexts for multiplication and division problems.

Social Studies:

Geography

- Identify and describe the characteristics and purposes of a variety of geographic tools & technologies
- Describe ways in which the United States can be divided into different regions
- Understand how regions are created from common physical & human characteristics
- Describe the impact of immigration to the United States on the cultural development of different places or regions of the United States
- Identify push and pull factors of why people move in and out of as well as within the United States
- Understand the positive and negative effects of human activities on the physical environment

History

- Use historical inquiry questions to investigate the development of Michigan's major economic activities (agriculture, mining, manufacturing, lumbering, tourism, technology, and research) from 20th century to present

Political Systems

- Explain why people create governments
- Describe the structure of government in the United States and how it functions to serve citizens
- Understand values and principles of American constitutional democracy
- Explain responsibilities of citizenship
- Explain important rights and how, when, and where American citizens demonstrate their responsibilities by participating in government

Economics

- Describe some characteristics of a market economy
- Explain how changes in the United States economy impact levels of employment and unemployment
- Describe how global competition affects the national economy