

SCHOOL DISTRICT OF PHILADELPHIA

GRADE-LEVEL EDUCATIONAL GOALS
PARENT REFERENCE GUIDE

7TH GRADE

READING / WRITING

By the end of the school year, your seventh grader should be able to:

- Explain some of the strategies they use for comprehension before, during and after reading such as Talk Across the Fingers, The 5 Ws, and TAG It a 3
- Read and understand a variety of texts including historical fiction, novels, poetry, fairy tales, tall tales, myths, legends and plays
- Read and discuss informational texts, such as magazines, newspaper articles, science and social studies texts
- Use writing skills to plan, draft, revise, and publish writing for a specific purpose
- Write a variety of pieces such as stories, plays, poems, and reports



MATHEMATICS

By the end of the school year, your seventh grader should be able to:

- Identify and solve problems with whole numbers, fractions, decimals, positive/negative numbers, percents, exponents, roots, and scientific notation
- Select and utilize appropriate units and measure length, area, and volume of geometric figures
- Calculate distance, rate, capacity, area, weight, mass, and angles
- Find perimeter (distance around), circumference (distance around) and area (amount of space covered) of triangles, quadrilaterals, circles, and other polygons
- Understand how two angles equal 90° or 180°
- Collect, construct, organize, display, and analyze real life data
- Create surveys and graph results
- Understand the percent chance of an event happening
- Predict and determine all possible combinations and outcomes, for example, “How many double scoop cones can be made with 40 flavors of ice cream, without two repeated flavors on a cone?”
- Explore and represent continuing patterns
- Solve equal and unequal number sentences
- Create models of three-dimensional objects using straws and toothpicks
- Explain how they solved a math problem in their own words

SCIENCE

By the end of the school year, your seventh grader should be able to:

- Explain the similarities and differences found among living things and how living things are organized
- Detail the role of the cell as the building block of life
- Explain the relationship between genetic traits and heredity
- Describe the basic elements of meteorology, including the composition of Earth's atmosphere
- Explain the differences between weather and climate
- Understand the nature of sound and the nature of light and how waves transfer energy
- Explain how radio waves and microwaves are used in communication technology
- Conduct hands-on investigations to discover and understand their world
- Record observations in science notebooks



SOCIAL STUDIES

By the end of the school year, your seventh grader should be able to:

- Use the five themes of geography: location, movement, place, region, and interaction to answer geographic questions and analyze geographic concepts about the Eastern Hemisphere
- Discuss the ideas and strategies of financial literacy and apply them to daily situations
- Discuss how modern day Africa has been affected by its land, history and cultures
- Understand how European nationalism led to empire building and conflicts among European nations
- Identify the factors that brought about the expansion of Russia during the communist era
- Identify the types of governments and economies that exist in some Asian countries
- Describe China's current status in the world
- Explain how historical events and geography have shaped the governments, economies and cultures in Australia, New Zealand and Oceania
- Describe the different ways people view the origins of the universe
- Describe the different reasons why the immigrants from Europe migrated to Philadelphia
- Discuss the rules that govern the Juvenile Justice System in Pennsylvania

HEALTH/PHYSICAL EDUCATION

By the end of the school year, your seventh grader should be able to:

- Recognize symptoms of depression and what to do
- Identify safe dating practices
- Know different health care specialists
- Understand that diet and exercise impact quality of life
- Understand the steps of peer mediation
- Participate in aerobic activities that strengthen the heart and lungs
- Understand skills, rules and strategies to participate in team and individual sports

ART AND MUSIC

By the end of the school year, your seventh grader should be able to:

Art

- Demonstrate ability in the use of different art media and techniques
- Understand and use line, shape, color, form, balance, rhythm unity and emphasis to create works of art
- Identify the cultural origin of a work of art such as a Native American weaving, Asian painting or Greek vase

Music

- Sing and play more complicated melodies representing various music genres, styles and historical periods
- Compose music using notation for writing rhythm patterns, melodies, and harmonies
- Analyze through listening and reflection the historical and cultural impact on musical selections