

**9100 CURRICULUM DEVELOPMENT, ADOPTION AND REVIEW**

**9150 Graduation or Exit Outcomes Prior to 2000-2001**

1. Communications

- (i) All students use effective research and information management skills, including locating primary and secondary sources of information with traditional and emerging library technologies.
- (ii) All students read and use a variety of methods to make sense of various kinds of complex texts.
- (iii) All students respond orally and in writing to information and ideas gained by reading narrative and informational texts and use the information and ideas to make decisions and solve problems.
- (iv) All students write for a variety of purposes, including to narrate, inform, and persuade, in all subject areas.
- (v) All students analyze and make critical judgments about all forms of communication, separating fact from opinion, recognizing propaganda, stereotypes and statements of bias, recognizing inconsistencies and judging the validity of evidence.
- (vi) All students exchange information orally, including understanding and giving spoken instructions, asking and answering questions appropriately and promoting effective group communications.
- (vii) All students listen to and understand complex oral messages and identify their purpose, structure, and use.

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3           (viii) All students compose and make oral presentations for  
4               each academic area of study that are designed to  
5               persuade, inform or describe.

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7           (ix) All students converse, at a minimum level of  
8               "intermediate Low," as defined in the oral proficiency  
9               guidelines developed by the American council on the  
10              Teaching of Foreign Languages, in at least one  
11              language other than English, including the native  
12              language if other than English, under 5.215(c)  
13              (relating to languages).

14  
15       2. Mathematics

16  
17           (i) All students use numbers, number systems, and  
18              equivalent forms (including numbers, words, objects,  
19              and graphics) to represent theoretical and practical  
20              situations.

21  
22           (ii) All students compute, measure, and estimate to solve  
23               theoretical and practical problems, using appropriate  
24               tools, including modern technology such as  
25               calculators and computers.

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27           (iii) All students apply the concepts of patterns, functions,  
28               and relations to solve theoretical and practical  
29               problems.

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31           (iv) All students formulate and solve problems and  
32               communicate the mathematical processes used and  
33               the reasons for using them.

34  
35           (v) All students understand and apply basic concepts of  
36               algebra, geometry, probability, and statistics to solve  
37               theoretical and practical problems.

38  
39           (vi) All students evaluate, infer, and draw appropriate  
40               conclusions from charts, tables, and graphs, showing  
41               the relationships between data and real world  
42               situations.

43  
44           (vii) All students make decisions and predictions based  
45               upon the collection, organization, analysis, and  
46

interpretation of statistical data and the application of probability.

### 3. Science and Technology

- (i) All students explain how scientific principles of chemical, physical, and biological phenomena have developed and relate them to real world situations.
- (ii) All students demonstrate knowledge of basic concepts and principles of physical, chemical, biological, and earth sciences.
- (iii) All students use and master materials, tools, and processes of major technologies which are applied in economic and civil life.
- (iv) All students explain the relationships among science, technology, and society.
- (v) All students construct and evaluate scientific and technological systems using models to explain or predict results.
- (vi) All students develop and apply skills of observation, data collection, analysis, pattern recognition, prediction, and scientific reasoning in designing and conducting experiments and solving technological problems.
- (vii) All students evaluate advantages, disadvantages, and ethical implications associated with the impact of science and technology on current and future life.
- (viii) All students evaluate the impact on current and future life of the development and use of varied energy forms, natural and synthetic materials, and production and processing of food and other agricultural products.

2  
3 4. Environment and Ecology

- 4  
5 (i) All students understand and describe the components  
6 of ecological systems and their functions.  
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8 (ii) All students analyze the effects of social systems,  
9 behaviors and technologies on ecological systems and  
10 environmental quality.  
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12  
13 (iii) All students think critically and generate potential  
14 solutions to environmental issues.  
15  
16 (iv) All students evaluate the implications of finite natural  
17 resources and the need for conservation, sustainable  
18 agricultural development, and stewardship of the  
19 environment.  
20

21 5. Citizenship

- 22  
23 (i) All students demonstrate an understanding of major  
24 events, cultures, groups, and individuals in the  
25 historical development of Pennsylvania, the United  
26 States and other nations, and describe themes and  
27 patterns of historical development.  
28  
29 (ii) All students demonstrate understanding of themes  
30 and patterns of geography, know the location of major  
31 bodies of water, land masses and nations, and  
32 describe the relationships between geography and  
33 historical, economic, and cultural development.  
34  
35 (iii) All students describe the development and operations  
36 of  
37 economic, political, legal and governmental systems in  
38 the United States, assesses their own relationships to  
39 those systems and compare them to those in other  
40 nations.  
41  
42 (iv) All students examine and evaluate problems facing  
43 citizens in their communities, State, nation, and  
44 world by incorporating concepts and methods of  
45 inquiry of the various social sciences.  
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2  
3 7. Career Education and Work

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5 (i) All students explore the multiple purposes of work  
6 and the range of career options, including  
7 entrepreneur-ship, and relate them to their individual  
8 interests, aptitudes, skills, and values.  
9  
10 (ii) All students assess how changes in society,  
11 technology, government, and the economy affect  
12 individuals and their careers and require them to  
13 continue learning.  
14  
15 (iii) All students understand and demonstrate the  
16 importance of relating their academic and vocational  
17 skills (for example, interviewing, creative thinking,  
18 decision-making, problem-solving, understanding and  
19 giving written and oral instructions) to their ability to  
20 seek, obtain, maintain, and change jobs.  
21  
22 (iv) All students completing a vocational-technical  
23 education program exhibit the skills required to  
24 succeed in a particular occupation for which they  
25 have prepared.  
26

27 8. Wellness and Fitness

- 28  
29 (i) All students develop knowledge of injury prevention  
30 and treatment and the ability to respond  
31 appropriately in emergency situations.  
32  
33 (ii) All students recognize and demonstrate the ability to  
34 apply dietary guidelines to meet nutritional needs at  
35 various stages of life.  
36  
37 (iii) All students demonstrate their knowledge of the  
38 benefits associated with physical fitness and good  
39 personal health habits including health promotion  
40 and disease prevention.  
41  
42 (iv) All students identify the advantages of avoiding, and  
43 develop the skills to avoid tobacco, alcohol, and  
44 substance use.  
45  
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- 3            (v)    All students demonstrate individual development in
- 4                   motor fitness and physical fitness, including aerobic
- 5                   fitness and skills in life-time sports and outdoor
- 6                   activities, to promote lifelong physical activity.
- 7
- 8            (vi)    All students demonstrate leadership skills and the
- 9                   ability to work cooperatively in team sports or other
- 10                  developmentally appropriate group activities.
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12            9.    Home Economics

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- 14            (i)    All students demonstrate their knowledge of
- 15                   principles of consumer behavior as a foundation for
- 16                   managing available resources to provide for personal
- 17                   and family needs.
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- 19            (ii)    All students demonstrate their knowledge of basic
- 20                   child health and child care skills.
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23            Adoption Date        -            September 13, 1999

24            **Revised**

25            ~~Practice~~

26            Legal Reference       -            Pennsylvania School Laws & Rules

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28            JT/ab

29            JHD/rjf