

D.  $1.6 \times 10^4$

1.5 There are ... atoms of hydrogen in  $20\text{ g}$  of  $\text{H}_2\text{O}$ .

- A.  $2.4 \times 10^{24}$   
 B.  $6 \times 10^{23}$   
 C.  $4.8 \times 10^{24}$   
 D.  $8 \times 10^{23}$

[2]

#### QUESTION 2

An airplane flies in the following manner:  $200\text{ km}$  east,  $100\text{ km}$  south and then  $100\text{ km}$  west.

- 2.1 ~~Calculate the total distance travelled by the airplane.~~ (2)  
 2.2 ~~Calculate the total displacement of the airplane.~~ (2)  
 2.3 ~~Calculate the average speed of the airplane if it takes  $1.5\text{ h}$  to complete the journey.~~ (2)  
 2.4 If the plane takes  $10\text{ min}$  to complete the journey, determine the average speed  $\vec{v}$  for  $\vec{v}_x$ . (2)

[7]

#### QUESTION 3

A car stops at the driver pulls out of his driveway and leaves a trail of oil drops on the road as he travels. The oil drops are dropped every half a second. The distance of the drops (in the direction of travel) follows:

Drop point	Distance from starting point
1	0
2	1
3	4
4	9
5	16
6	25

- 3.1 ~~Calculate the acceleration of the car.~~ (2)  
 3.2 ~~Calculate the average velocity of the car between drops 1 and 6.~~ (2)  
 3.3 Calculate the magnitude of the velocity at point E. (2)  
 3.4 ~~Calculate the total distance of the car when it reaches point F.~~ (2)

[7]

[10]

#### QUESTION 4

The velocity vs time graph below illustrates a part of a motor journey, stopping for fuel at fuel station.



NO EQUATIONS OF MOTION SHOULD BE USED IN ANSWERING THE FOLLOWING QUESTIONS.

- 4.1 ~~Calculate the maximum velocity of the vehicle.~~ (2)  
 4.2 ~~Calculate the total distance travelled by the vehicle.~~ (2)  
 4.3 Use the graph to calculate the acceleration at the following intervals:  
 4.3.1 ~~Between 0 and 2 hours.~~ (2)  
 4.3.2 ~~Between 3 and 5 hours.~~ (2)  
 4.3 Use the graph to calculate the total displacement of the vehicle. (2)

[7]

#### QUESTION 5

A vehicle starts from rest and accelerates in a southerly direction at  $3\text{ m/s}^2$ .

- 5.1 ~~Calculate the distance travelled by the vehicle after  $10\text{ s}$ .~~ (2)  
 5.2 ~~Calculate the velocity of the vehicle after  $10\text{ s}$ .~~ (2)  
 5.3 ~~Calculate the time taken for the vehicle to travel  $100\text{ m}$ .~~ (2)  
 5.4 ~~Calculate the average velocity of the vehicle after  $10\text{ s}$ .~~ (2)

[7]

# Physical Science Grade 10 September Control Test

**Alabama Academy of Science**



## Physical Science Grade 10 September Control Test:

**USAF Formal Schools** United States. Dept. of the Air Force, 1987      Resources in Education ,2000-10      **USAF Formal Schools** United States. Department of the Air Force, 1987      *The College Handbook* ,1994      **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1959      **Energy Research Abstracts** ,1980  
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List of member in each volume      *USAF formal schools catalog* United States. Department of the Air Force, 1976  
*Bulletin of Prosthetics Research* ,1980      Municipal Journal ,1913      Research in Education ,1971      Studied Ignorance Herbert N. Foerstel, 2013-05-23 Despite concerted efforts from our educators administrators and government American education continues to struggle The author of this work argues that the decline can be traced to censored curricula inaccurate textbooks test driven evaluations and increasing poverty among the student population Under the definition of failure specified in the No Child Left Behind Act more than 80 percent of American schools could currently be labeled as failing while the quality of American education overall and our students performance continue to rank unfavorably against international competition This book examines the crisis in American education and identifies how weaknesses in textbooks teaching and testing have created the crisis facing American education a topic that dramatically affects students teachers and parents Author Herbert N Foerstel exposes the textbook wars that began a century ago and rage on with even more venom today His book traces the legal basis for curricular censorship that dates back 75 years identifies the bizarre process by which shoddy textbooks have been written published and come to be widely accepted and documents the disastrous effect that reliance on these materials has had on the curriculum Foerstel also supplies a careful assessment of the current political debate over education reform and of the proposed solutions to these problems      **Kenya Gazette** ,1984-09-14 The Kenya Gazette is an official publication of the government of the Republic of Kenya It contains notices of new legislation notices required to be published by law or policy as well as other announcements that are published for general public information It is published every week usually on Friday with occasional releases of special or supplementary editions within the week  
**ERIC Educational Documents Index, 1966-69: Minor descriptors and author index** ,1970      **Municipal Journal and Public Works** ,1913      **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1960 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December      ERIC Educational Documents Index Educational Resources Information Center (U.S.), 1966 A subject author institution index which provides titles and accession numbers to the document and report literature that was announced in the monthly issues of Resources in education earlier called Research in education      **The Education Index** ,1991      Resources in Education ,1995

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