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THIS IS A LIST OF COMMON PHYSICAL CONSTANTS AND VARIABLES AND THEIR NOTATIONS NOTE THAT BOLD TEXT INDICATES THAT THE QUANTITY IS A VECTOR VELOCITY v IS A VECTOR QUANTITY THAT MEASURES DISPLACEMENT OR CHANGE IN POSITION Δs OVER THE CHANGE IN TIME Δt REPRESENTED BY THE EQUATION $v = \Delta s / \Delta t$ SPEED OR RATE r IS A SCALAR QUANTITY THAT MEASURES THE DISTANCE TRAVELED d OVER THE CHANGE IN TIME Δt REPRESENTED BY THE EQUATION $r = d / \Delta t$ CREATED BY SAL KHAN QUESTIONS ON THE SUBMICROSCOPIC SCALE IT IS MORE CONVENIENT TO DEFINE AN ENERGY UNIT CALLED THE ELECTRON VOLT eV WHICH IS THE ENERGY GIVEN TO A FUNDAMENTAL CHARGE ACCELERATED THROUGH A POTENTIAL DIFFERENCE OF 1 V IN EQUATION FORM $1\text{ eV} = 1.60 \times 10^{-19}\text{ C} \times 1\text{ V} = 1.60 \times 10^{-19}\text{ J}$ SYMBOLS REPRESENTING PHYSICAL QUANTITIES UNITS MATHEMATICAL OPERATIONS AND RELATIONSHIPS ASTRONOMICAL BODIES CONSTELLATIONS AND THE GREEK ALPHABET PHYSICS IS THE STUDY OF MATTER MOTION ENERGY AND FORCE HERE YOU CAN BROWSE VIDEOS ARTICLES AND EXERCISES BY TOPIC WE KEEP THE LIBRARY UP TO DATE SO YOU MAY FIND NEW OR IMPROVED MATERIAL HERE OVER TIME VELOCITY IS A PHYSICAL VECTOR QUANTITY BOTH MAGNITUDE AND DIRECTION ARE NEEDED TO DEFINE IT THE SCALAR ABSOLUTE VALUE MAGNITUDE OF VELOCITY IS CALLED SPEED BEING A COHERENT DERIVED UNIT WHOSE QUANTITY IS MEASURED IN THE SI METRIC SYSTEM AS METRES PER SECOND m s^{-1} OR m s^{-1} THIS FREE TEXTBOOK IS AN OPENSTAX RESOURCE WRITTEN TO INCREASE STUDENT ACCESS TO HIGH QUALITY PEER REVIEWED LEARNING MATERIALS FREE SCIENCE AND MATH SIMULATIONS FOR TEACHING STEM TOPICS INCLUDING PHYSICS CHEMISTRY BIOLOGY AND MATH FROM UNIVERSITY OF COLORADO BOULDER THIS PHYSICS RESOURCE INTRODUCES PHYSICS AND SCIENTIFIC PROCESSES FOLLOWED BY CHAPTERS FOCUSED ON MOTION MECHANICS THERMODYNAMICS WAVES AND LIGHT PHYSICS SCIENCE THAT DEALS WITH THE STRUCTURE OF MATTER AND THE INTERACTIONS BETWEEN THE FUNDAMENTAL CONSTITUENTS OF THE OBSERVABLE UNIVERSE ITS SCOPE OF STUDY ENCOMPASSES NOT ONLY THE BEHAVIOR OF OBJECTS UNDER THE ACTION OF FORCES BUT ALSO GRAVITATIONAL ELECTROMAGNETIC AND NUCLEAR FORCE FIELDS BY THE END OF THIS SECTION YOU WILL BE ABLE TO EXPLAIN THE RELATIONSHIPS BETWEEN INSTANTANEOUS VELOCITY AVERAGE VELOCITY INSTANTANEOUS SPEED AVERAGE SPEED DISPLACEMENT AND TIME CALCULATE VELOCITY AND SPEED GIVEN INITIAL POSITION INITIAL TIME FINAL POSITION AND FINAL TIME WHAT ARE THE KINEMATIC EQUATIONS THE KINEMATIC EQUATIONS RELATE THE FIVE KINEMATIC VARIABLES LISTED BELOW Δx DISPLACEMENT t TIME INTERVAL v_0 INITIAL VELOCITY v FINAL VELOCITY a A CONSTANT ACCELERATION WHY IS THE TIME INTERVAL NOW WRITTEN AS t $\Delta x / \Delta t$ $\Delta t / \Delta t$ PHYSICS AIMS TO DESCRIBE THE VARIOUS PHENOMENA THAT OCCUR IN NATURE IN TERMS OF SIMPLER PHENOMENA THUS PHYSICS AIMS TO BOTH CONNECT THE THINGS OBSERVABLE TO HUMANS TO ROOT CAUSES AND THEN CONNECT THESE CAUSES TOGETHER IN THE EQUATION $v = d / t$ v IS THE VELOCITY d IS THE DISTANCE AND t IS THE TIME DETERMINE THE OBJECT'S ACCELERATION BY DIVIDING THE OBJECT'S MASS BY FORCE AND MULTIPLY THE ANSWER BY THE TIME IT TOOK FOR IT TO ACCELERATE FOR EXAMPLE IF THE OBJECT WEIGHS 30 kg AND HAS A FORCE OF 15 N APPLIED TO IT THEN THE ACCELERATION WOULD BE 4 m s^{-2} PHYSICS 12 4 3A VOLTAGE ELECTRIC FIELDS AND DISTANCE THE EQUATION $v = Ed$ IS DERIVED AND EXPLAINED HIGH SCHOOL DIFFICULTY LEVEL FROM THE PHYSICS COURSE BY DEREK OWENS IT CAN BE WRITTEN AS $R = V / I$ WHERE R RESISTANCE V VOLTAGE I CURRENT RESISTANCE IS EXPRESSED IN OHMS FREQUENTLY USED EQUATIONS IN PHYSICS APPROPRIATE FOR SECONDARY SCHOOL STUDENTS AND HIGHER MOSTLY ALGEBRA BASED SOME TRIG SOME CALCULUS SOME FANCY CALCULUS 40 937 WHERE DO THE COLOURS OF A RAINBOW COME FROM 3 49 550 PHYSICS MADE EASY RESOURCES TO ACE YOUR EXAM BYJU'S PHYSICS OFFERS AN EXTENSIVE COLLECTION OF MORE THAN 1800 ARTICLES DESIGNED TO SERVE AS VALUABLE STUDY RESOURCES FOR STUDENTS PRODUCT DETAILS CATEGORY SCIENCE TECHNOLOGY EBOOK 10 99 PUBLISHED BY DK JUL 07 2015 352 PAGES ISBN 9781615647903 BROWSE ONLINE PHYSICS CLASSES TO GROW YOUR KNOWLEDGE OR CAREER USE A VARIETY OF COURSES TO BEGIN YOUR JOURNEY TO A VARIETY OF EXCITING SCIENTIFIC ROLES

LIST OF COMMON PHYSICS NOTATIONS WIKIPEDIA

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THIS IS A LIST OF COMMON PHYSICAL CONSTANTS AND VARIABLES AND THEIR NOTATIONS NOTE THAT BOLD TEXT INDICATES THAT THE QUANTITY IS A VECTOR

CALCULATING AVERAGE VELOCITY OR SPEED VIDEO KHAN ACADEMY

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VELOCITY v IS A VECTOR QUANTITY THAT MEASURES DISPLACEMENT OR CHANGE IN POSITION Δs OVER THE CHANGE IN TIME Δt REPRESENTED BY THE EQUATION $v = \frac{\Delta s}{\Delta t}$ SPEED OR RATE r IS A SCALAR QUANTITY THAT MEASURES THE DISTANCE TRAVELED d OVER THE CHANGE IN TIME Δt REPRESENTED BY THE EQUATION $r = \frac{d}{\Delta t}$ CREATED BY SAL KHAN QUESTIONS

7 3 ELECTRIC POTENTIAL AND POTENTIAL DIFFERENCE PHYSICS

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ON THE SUBMICROSCOPIC SCALE IT IS MORE CONVENIENT TO DEFINE AN ENERGY UNIT CALLED THE ELECTRON VOLT eV WHICH IS THE ENERGY GIVEN TO A FUNDAMENTAL CHARGE ACCELERATED THROUGH A POTENTIAL DIFFERENCE OF 1 V IN EQUATION FORM $1 \text{ eV} = 1.60 \times 10^{-19} \text{ J}$ $1 \text{ V} = 1.60 \times 10^{-19} \text{ J/C}$ $1 \text{ J} = 6.24 \times 10^{18} \text{ eV}$

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SYMBOLS REPRESENTING PHYSICAL QUANTITIES UNITS MATHEMATICAL OPERATIONS AND RELATIONSHIPS ASTRONOMICAL BODIES CONSTELLATIONS AND THE GREEK ALPHABET

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2 3 TIME VELOCITY AND SPEED PHYSICS LIBRETEXTS

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WHAT ARE THE KINEMATIC EQUATIONS ARTICLE KHAN ACADEMY

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WHAT ARE THE KINEMATIC EQUATIONS THE KINEMATIC EQUATIONS RELATE THE FIVE KINEMATIC VARIABLES LISTED BELOW Δx DISPLACEMENT t TIME INTERVAL v_0 INITIAL VELOCITY v FINAL VELOCITY a CONSTANT ACCELERATION WHY IS THE TIME INTERVAL NOW WRITTEN AS $t - t_0$ Δx Δt Δt Δt

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PHYSICS AIMS TO DESCRIBE THE VARIOUS PHENOMENA THAT OCCUR IN NATURE IN TERMS OF SIMPLER PHENOMENA THUS PHYSICS AIMS TO BOTH CONNECT THE THINGS OBSERVABLE TO HUMANS TO ROOT CAUSES AND THEN CONNECT THESE CAUSES TOGETHER

VELOCITY DEFINITION UNITS FORMULA EXAMPLES EQUATIONS

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IN THE EQUATION $v = d/t$ v IS THE VELOCITY d IS THE DISTANCE AND t IS THE TIME DETERMINE THE OBJECT'S ACCELERATION BY DIVIDING THE OBJECT'S MASS BY FORCE AND MULTIPLY THE ANSWER BY THE TIME IT TOOK FOR IT TO

ACCELERATE FOR EXAMPLE IF THE OBJECT WEIGHS 30 KG AND HAS A FORCE OF 15 N APPLIED TO IT THEN THE ACCELERATION WOULD BE 4 M S

PHYSICS 12 4 3A VOLTAGE ELECTRIC FIELDS AND DISTANCE

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PHYSICS 12 4 3A VOLTAGE ELECTRIC FIELDS AND DISTANCE THE EQUATION $V = Ed$ IS DERIVED AND EXPLAINED HIGH SCHOOL DIFFICULTY LEVEL FROM THE PHYSICS COURSE BY DEREK OWENS

OHM S LAW CALCULATOR FORMULA CALCULATIONS

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IT CAN BE WRITTEN AS $R = V / I$ WHERE R RESISTANCE V VOLTAGE I CURRENT RESISTANCE IS EXPRESSED IN OHMS

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FREQUENTLY USED EQUATIONS IN PHYSICS APPROPRIATE FOR SECONDARY SCHOOL STUDENTS AND HIGHER MOSTLY ALGEBRA BASED SOME TRIG SOME CALCULUS SOME FANCY CALCULUS

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PHYSICS BY PAUL V PANCELLA MARC HUMPHREY 978 16 15647903

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