Vectors and scalars grade 10 pdf

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Se você continuar a utilizar o site, você aceita o uso de cookies. Leia nossa Política de Privacidade e nosso Contrato do Usuário para obter mais detalhes. On this page, you will find Vectors and scalars notes for Grade 10, including common questions and answers for study revision. The main important learning outcomes for Physical Sciences Grade 10 (Victors and Scalars) are: To introduce the concepts of VECTORS and SCALARS To CLASSIFY Physical Quantities as Vectors or Scalars To learn and remember the Properties of VectorsDifference between Vectors and Scalars SCALAR QUANTITIES – Scalars are physical quantities that have magnitude (size) only (NO DIRECTION).Examples: QUANTITYSYMBOLSI UNITTimetseconds (s)Massmkilogram (kg)TemperaturetDegrees Celsius (C)Distancedmeter (m)Speedvmeter per second (m· s-1)VECTOR QUANTITIES – Vectors are physical quantities that have both magnitude (size) and direction.Examples: Video Lesson: Vectors and Scalars Downloadable pdf Notes on VECTORS and SCALARS Physical-Science-10-3-A-Guide-to-Vectors-and-ScalarsDownload gr-10-term-3-2019-physical-sciences-resource-packDownload Physical-Sciences-Grade-10-Term-3-Week-5_2020_2020Download gr-10-term-3-2019-physical-sciences-resource-pack-1Download DONT MISS: Physical Science Grade 10 Latest Assignment and Memos CAPS Download This lesson will teach you the principle of vectors and scalars. We come into contact with many physical quantities in the natural world on a daily basis. For example, things like time, mass, weight, force, and electric charge, are physical quantities with which we are all familiar. We know that time passes and physical objects have mass. Things have weight due to gravity. We exert forces when we open doors, walk along the street and kick balls. We experience electric charge directly through static shocks in winter and through using anything which runs on electricity. There are many physical quantities in nature, and we can divide them up into two broad groups called vectors and scalars. Scalars are physical quantities which have only a number value or a size (magnitude). A scalar tells you how much of something there is. Scalar A scalar is a physical quantity that has only a magnitude (size). For example, a person buys a tub of margarine which is labelled with a mass of 500 g. The mass of the tub of margarine is a scalar quantity. It only needs one number to describe it, in this case, 500 g. Vectors are different because they are physical quantities which have a size and a direction. A vector tells you how much of something there is and which direction it is in. Vector A vector is a physical quantity that has both a magnitude and a direction. For example, a car is travelling east along a freeway at 100 $\text{km·h^{-1}}$. What we have here is a vector called the velocity. The car is moving at 100 $\text{km·h^{-1}}$ (this is the magnitude) and we know where it is going – east (this is the direction). These two quantities, the speed and direction of the car, (a magnitude and a direction) together form a vector we call velocity. Examples of scalar quantities: mass has only a value, no direction electric charge has only a value, no direction Examples of vector quantities: force has a value and a direction. You push or pull something with some strength (magnitude) in a particular direction weight has a value and a direction. Your weight is proportional to your mass (magnitude) and is always in the direction towards the centre of the earth. Textbook Exercise 20.1 Classify the following as vectors or scalars length force direction height time speed temperature scalar vector scalar scalar scalar scalar scalar Vectors are different to scalars and must have their own notation. There are many ways of writing the symbol for a vector. In this book vectors will be shown by symbols with an arrow pointing to the right above it. For example, $\vec{F}$, $\vec{W}$ and $\vec{v}$ represent the vectors of force, weight and velocity, meaning they have both a magnitude and a direction. Sometimes just the magnitude of a vector is needed. In this case, the arrow is omitted. For the case of the force vector: $\vec{F}$ represents the force vector F represents the magnitude of the force vector temp text

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