Chapter 1: · Each material has proporties: physical and Chemical -> physical properties :- . shows by itself without interacting with another SubstanCe -> Chemical properties - shows as it interacts with a or transforms into another substances state of matter. -solid - gaz - liquid Changes -Chemical Change • H Can't be rereced simply by tempreture Physical Changes:-· Physical form Changes · Composition Does not Change · Keversible :- By tempreture Energy :-Total Energy > + < I Kinetic Potential Depends on Movement . Depends on Position * Notes:- lower energy states are more stable and are forvored Potential Energy 1 Stablity V

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·Remember :- Density = Mass Volume Decimal Prefixes: 1012 terra T 102 Jempreture :hecto h it can measured by :da deka 10 10 deci C Kelvin (K): has only positive Values 10-12 P pico Celsius (°C) : Huses The same Size -15 f fembo legree معنى زيارة ا درجة في الكلفن تكاني ارزحبة في الد وسنعلى ولكن للقياسين يسلن من نقضة مختلفة SI-English Equivalet Quantities. Conversions:-1 Km = 0.6214 mi 1 mi = 1.609 Km . $T_{in} K = T_{in} C) + 273.15$ m = 39.37 in ff = 0.3048 m . Tin C = T(in K) - 273. 15 1 gal = 3.785 clm³ (Volume) $. \quad T(in F^{\circ}) = \frac{q}{5}T(in^{\circ}C) + 32$ Significant figures:-• Quentities has Certain Digits :- rightmost Digit Ex: 5.27.1 Certain estimated / uncertain All Digits are Significant except Zeros: Zeros Significant Not Significant · Zeros when Decimal Point . Zero when Decimal is Present Ex. 3500. (4 sig.f) 1.030 (4 sig.f) 0.30 (2 sig.f) point is not There and zeros on the left

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* Rules for Signifacul figures In Calculation • الدهم الذي فتوف على اقل عد من الخانات .: noicabon - للتم النبي فتوف على اقل عد من الخانات .: Division + •الرقم الذي فتوى على اقل منازل حدثورة في م عبد المنانل اللستورية في الاج ابة المهارية * Rounding off !more Than 5: The preceeding number increases by one Digit Removed = + Equals fire Hy 11 Followed with zeros or no digits - if it's Odel: Increases By one ۰ • -> if it's Even . Does not increase Exact numbers has No uncertaily Jellowed with nonzero cliquis and Dees not limit number of Significart figures The preceeling number increases by one > less than five :-The preceding number is not Changed Errors Random Systematic > Precision Values higher and . It has to do with the Series Values either all lower than Achual Value higher or all . You compare the > Agenracy each other lower Than He Actual Values , refers too the actual value . you Compare to the actual Value

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