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Name _____ Date _____

States of Matter: Phase Changes

Phase	Description	Illustration
Evaporation	Liquid → ♦ Water changes into a gas called _____ ♦ Heat energy is added ♦ Particles move faster and faster ♦ Examples include a _____ disappearing and clothes drying	
Condensation	Gas → ♦ Water vapor turns into droplets of (liquid) _____ ♦ Heat energy is removed ♦ Particles _____ ♦ Examples include morning dew and a foggy mirror after a hot shower	
Freezing	Liquid → ♦ Heat energy is _____ ♦ (Liquid) water turns into ice ♦ Particles slow down ♦ Examples include rain turning into _____ and juice freezing into a popsicle	
Melting	Solid → ♦ Heat energy is _____ ♦ Ice turns into (liquid) water ♦ Particles move _____ ♦ Examples include a snowman thawing out and wax dripping down a candle	

♦ Matter can change from one phase to another with the addition or removal of _____

♦ Matter changing from one state to another is a _____

MatchCard Science **Chemistry - 8**

Differentiate between physical and chemical changes.

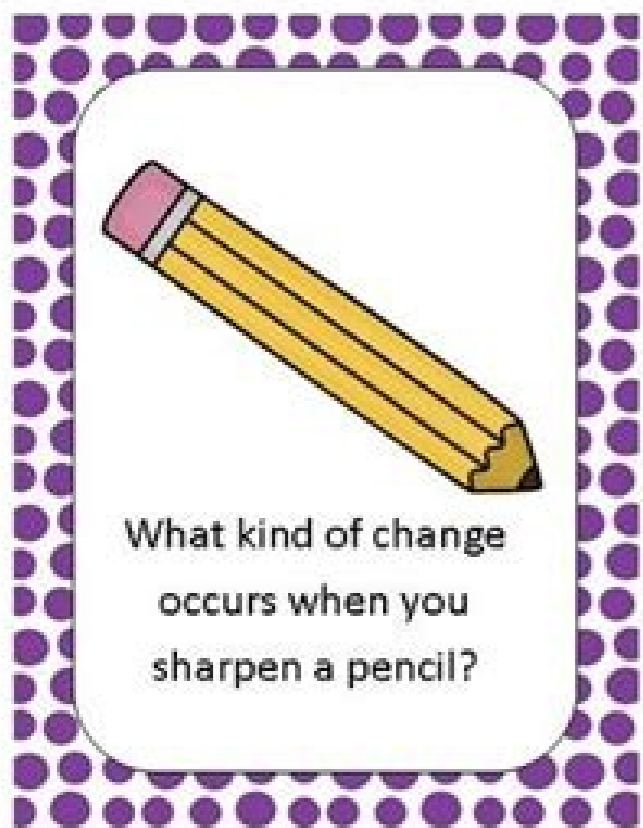
PHYSICAL CHANGES	CHEMICAL CHANGES

 Bread is baked.	 Boiling water evaporates.	 A rock is smashed into pieces.
 An old nail gets rusty.	 A frozen treat melts.	 An egg is cooked.

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Changes in Matter

Physical <small>might take a different form but NO NEW substance is made</small>	Chemical <small>a NEW substance is made</small>
 cookie crumbling	 burning wood → ash
 ice melting	 frying an egg
 breaking a pencil	 baking a cake
 tearing or ripping paper	 lighting or burning a match
 dissolving sugar in water	 a nail rusting



Physical and chemical changes and properties of matter worksheet 5th grade. Chemical and physical changes worksheet 5th grade. Physical and chemical changes worksheet 5th grade pdf.

Substance added to a system to cause a chemical reaction "Reactants" redirects here. Not to be confused with Resuscitance. Reaction, such as sulfur (pictured), are the starting materials that are used in chemical reactions. In chemistry, a reagent (/riˈeɪdʒənt/ ree-AY-jənt) or analytical reagent is a substance or compound added to a system to cause a chemical reaction, or test if one occurs.[1] The terms reactant and reagent are often used interchangeably, but reactant specifies a substance consumed in the course of a chemical reaction.[1] Solvents, though involved in the reaction mechanism, are usually not called reactants. Similarly, catalysts are not consumed by the reaction, so they are not reactants. In biochemistry, especially in connection with enzyme-catalyzed reactions, the reactants are commonly called substrates. Organic chemistry In organic chemistry, the term "reagent" denotes a chemical ingredient, this can also be stated as an "Orko". This is typically found in a compound.(a compound or mixture, typically of inorganic or small organic molecules) introduced to cause the desired transformation of an organic substance. Examples include the Collins reagent, Fenton's reagent, and Grignard reagents. In analytical chemistry, a reagent is a compound or mixture used to detect the presence or absence of another substance, e.g. by a color change, or to measure the concentration of a substance, e.g. by colorimetry. Examples include Fehling's reagent, Millon's reagent, and Tollens' reagent. Commercial or laboratory preparations In commercial or laboratory preparations, reagent-grade designates chemical substances meeting standards of purity that ensure the scientific precision and reliability of chemical analysis, chemical reactions or physical testing. Purity standards for reagents are set by organizations such as ASTM International or the American Chemical Society. For instance, reagent-quality water must have very low levels of impurities such as sodium and chloride ions, silica, and bacteria, as well as a very high electrical resistivity. Laboratory products which are less pure, but still useful and economical for undemanding work, may be designated as technical, practical, or crude grade to distinguish them from reagent versions. Biology In the field of biology, the biotechnology revolution in the 1980s grew from the development of reagents that could be used to identify and manipulate the chemical matter in and on cells.[2][3] These reagents included antibodies (polyclonal and monoclonal), oligomers, all sorts of model organisms and immortalised cell lines, reagents and methods for molecular cloning and DNA replication, and many others.[3][4] Tool compounds are also important reagents in biology; they are small molecules or biochemicals like siRNA or antibodies that are known to affect a given biomolecule—for example a drug target—but are unlikely to be useful as drugs themselves, and are often starting points in the drug discovery process.[5][6] Many natural products, such as curcumin, are hits in almost any assay in which they are tested, are not useful tool compounds, and are classified by medicinal chemists as "pan-assay interference compounds".[7][8][9] See also Limiting reagent Common reagents Product Substrate All pages with titles containing Reagent References ^ a b IUPAC, Compendium of Chemical Terminology, 2nd ed. (the "Gold Book") (1997). Online corrected version: (1996) "Reactant". doi:10.1351/goldbook.R05163 ^ Fox, Jeffrey L. (1 January 1979). "Antibody reagents revolutionizing immunology". Chemical & Engineering News Archive. 57: 15–17. doi:10.1021/cen-v057n001.p015. ^ a b "Report of the National Institutes of Health (NIH) Working Group on Research Tools". NIH. June 4, 1998. Archived from the original on August 16, 2000. ^ Ishino, S; Ishino, Y (29 August 2014). "DNA polymerases as useful reagents for biotechnology: the history of developmental research in the field". Frontiers in Microbiology. 5: 465. doi:10.3389/fmicb.2014.00465. PMC 4148896. PMID 25221550. ^ Kenakin, T; Bylund, DB; Toews, ML; Mullane, K; Winquist, RJ; Williams, M (1 January 2014). "Replicated, replicable and relevant-target engagement and pharmacological experimentation in the 21st century". Biochemical Pharmacology. 87 (1): 64–77. doi:10.1016/j.bcp.2013.10.024. PMID 24269285. ^ Lindsley, CW (25 September 2014). 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