
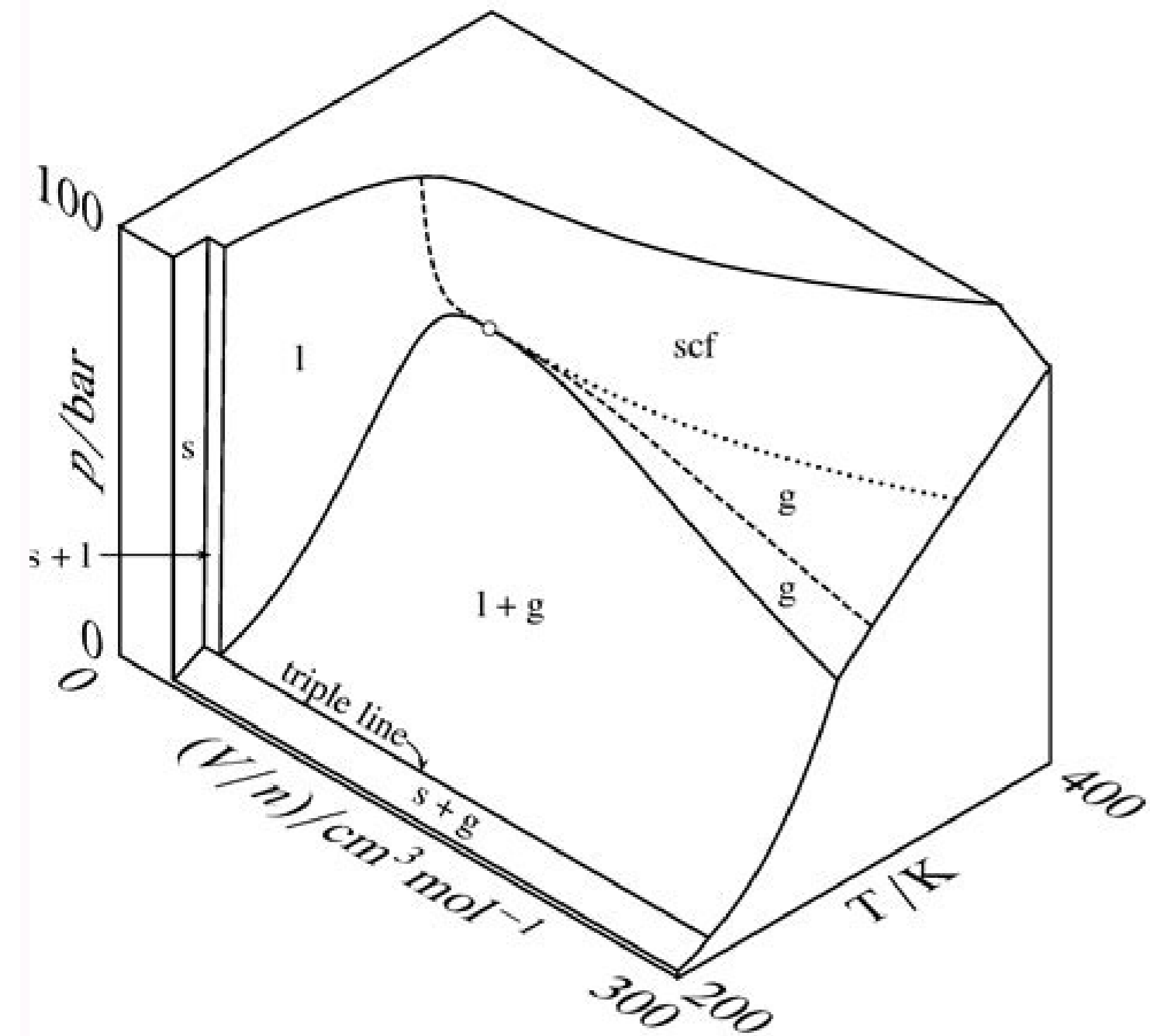


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Substance	$\Delta H_f^\circ$ (kJ/mol)	$\Delta G_f^\circ$ (kJ/mol)	$S^\circ$ (J/K · mol)
HF(g)	-271.6	-270.7	173.5
Fe(s)	0	0	27.2
Fe <sup>2+</sup> (aq)	-87.86	-84.9	-113.39
Fe <sup>3+</sup> (aq)	-47.7	-10.5	-293.3
FeCl <sub>2</sub> (s)	-400	-334	142.3
FeO(s)	-272.0	-255.2	60.8
Fe <sub>2</sub> O <sub>3</sub> (s)	-822.2	-741.0	90.0
Fe(OH) <sub>2</sub> (s)	-568.19	-483.55	79.5
Fe(OH) <sub>3</sub> (s)	-824.25	?	?
H <sub>2</sub> (g)	218.2	203.2	114.6
H <sub>2</sub> (l)	0	0	131.0
H <sup>+</sup> (aq)	0	0	0
OH <sup>-</sup> (aq)	-229.94	-157.30	-10.5
H <sub>2</sub> O(l)	-285.8	-237.2	69.9
H <sub>2</sub> O(g)	-241.8	-228.6	188.7
H <sub>2</sub> O <sub>2</sub> (l)	-187.6	-118.1	?
Hg(l)	0	0	77.4
Hg <sup>2+</sup> (aq)	-90.7	-164.38	72.0
HgO(s)	-230.1	-58.5	72.0
HgCl <sub>2</sub> (s)	-264.9	-210.66	196.2
Hg <sub>2</sub> Cl <sub>2</sub> (s)	-58.16	-48.8	77.8
HgSO <sub>4</sub> (s)	-704.17	-623.92	200.75
Hg <sub>2</sub> SO <sub>4</sub> (s)	-741.99	-623.92	200.75
I <sub>2</sub> (s)	0	0	116.7
I <sub>2</sub> (g)	62.25	19.37	260.6
I <sub>3</sub> (g)	106.6	70.16	180.7
I <sup>-</sup> (aq)	-55.9	-51.67	109.37
IK(s)	25.9	1.30	206.3
K(s)	0	0	63.6
K <sup>+</sup> (aq)	-251.2	-282.28	102.5
KOH(s)	-425.85	-408.3	82.68
KCl(s)	-435.87	-289.9	142.97
KClO <sub>4</sub> (s)	-391.20	-304.18	151.0
KClO <sub>3</sub> (s)	-433.46	-379.2	96.4
KBr(s)	-392.17	-322.29	104.35
KI(s)	-327.65	-393.1	132.9
KNO <sub>3</sub> (s)	-492.7	0	28.0
Li(s)	0	0	14.2
Li <sup>+</sup> (aq)	-278.46	-293.8	?
Li <sub>2</sub> O(s)	-595.8	-443.9	50.2
LiOH(s)	-487.2	0	32.5
Mg(s)	0	0	-117.99
Mg <sup>2+</sup> (aq)	-461.96	-456.0	26.78
MgO(s)	-601.8	-569.6	63.1
Mg(OH) <sub>2</sub> (s)	-924.66	-833.75	89.5
MgCl <sub>2</sub> (s)	-641.8	-592.3	91.6
MgSO <sub>4</sub> (s)	-1278.2	-1173.6	65.69
MgCO <sub>3</sub> (s)	-1112.9	-1029.3	65.69

(Continued)





Name \_\_\_\_\_  
Date \_\_\_\_\_ Pd \_\_\_\_\_

### Cell Organelles Worksheet

Complete the following table by writing the name of the cell part or organelle in the right hand column that matches the structure/function in the left hand column. A cell part may be used more than once.

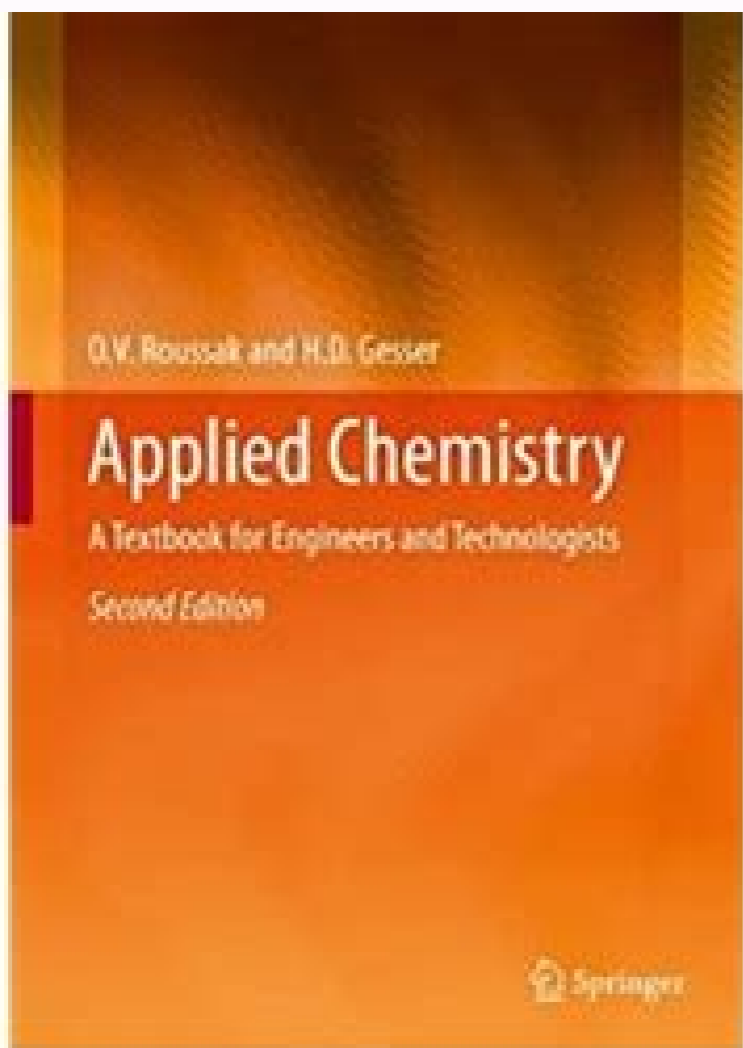
Structure/Function	Cell Part
1. Stores material within the cell	<b>Vacuole</b>
2. Closely stacked, flattened sacs (plants only)	<b>Chloroplasts (grana)</b>
3. The sites of protein synthesis	<b>Ribosome</b>
4. Transports materials within the cell	<b>Vesicles</b>
5. Jelly-like substance in the cell	<b>Cytoplasm</b>
6. Organelle that manages or controls all the cell functions in a eukaryotic cell	<b>Nucleus</b>
7. Contains chlorophyll, a green pigment that traps energy from sunlight and gives plants their green color	<b>Chloroplasts</b>
8. Digests excess or worn-out cell parts, food particles and invading viruses or bacteria	<b>Lysosome/Peroxisome</b>
9. Small bumps located on portions of the endoplasmic reticulum	<b>Ribosome</b>
10. Provides temporary storage of food, enzymes and waste products	<b>Vesicles</b>
11. Firm, protective structure that gives the cell its shape in plants, fungi, most bacteria and some protists	<b>Cell Wall</b>
12. Produces a usable form of energy for the cell	<b>Mitochondrion</b>
13. Packages proteins for transport out of the cell	<b>Golgi Apparatus</b>
14. Produces lipids	<b>Smooth ER</b>
15. Site where ribosomes are made	<b>Nucleolus</b>
16. The membrane surrounding the cell	<b>Plasma Membrane</b>
17. Provides support for the cell	<b>Cytoskeleton</b>

2. Refer to the Activity Series of Metals in Appendix F and indicate reaction (R) or no reaction (NR) when a small piece of tin metal is dropped into the following aqueous solutions.

(a) $\text{Ca}(\text{NO}_3)_2(\text{aq})$	(b) $\text{Cr}(\text{NO}_3)_3(\text{aq})$
(c) $\text{Ni}(\text{NO}_3)_2(\text{aq})$	(d) $\text{Pb}(\text{NO}_3)_2(\text{aq})$
(e) $\text{HNO}_3(\text{aq})$	(f) $\text{AgNO}_3(\text{aq})$

Handwritten notes: (a) R, (b) NR, (c) R, (d) R, (e) R, (f) NR.

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Analysis of a Penny 123



Modern chemistry appendix d answers. Pearson chemistry appendix d answers.

You're Reading a Free Preview Pages 68 to 69 are not shown in this preview. You're Reading a Free Preview Pages 135 to 148 are not shown in this preview. Small amounts of the nutrient are present in beef liver, cheese, egg yolks and mushrooms. You're Reading a Free Preview Pages 53 to 62 are not shown in this preview. But that's not all you'd want to know about vitamin D. Vitamin D is naturally found in certain foods and now appears in many more foods that have been fortified with added nutrients. This way, you can be sure the vitamin does not interact negatively with your condition or medication. Sun exposure is another method of naturally obtaining vitamin D, as our bodies can create their own vitamin D upon exposure to ultraviolet (UV) rays from the sun. However, it's difficult to gauge exactly how much sun exposure can generate sufficient vitamin D, as overexposure can be harmful, too. Photo Courtesy: Justin Paget/DigitalVision/Getty Images Vitamin D is important for maintaining a healthy body, primarily because it helps you fully maximize your body's absorption and utilization of calcium, an important mineral that we all need. With the help of fortified foods today, rickets is almost obsolete in the United States. You're Reading a Free Preview Pages 29 to 40 are not shown in this preview. Studies have shown that a regular, healthy vitamin D intake can also serve as an antidepressant and make people feel generally happier. Because vitamin D is a fat-soluble substance, it can stay in your body for several days. You're Reading a Free Preview Pages 87 to 90 are not shown in this preview. This deficiency can result in medical conditions, two of which are called rickets and osteomalacia. You're Reading a Free Preview Pages 130 to 131 are not shown in this preview. It also plays a vital role in cell growth, neuromuscular functions and protein encoding. It's most common in children. Osteomalacia, a 3D animativ :erof eud ni ilibinopsid onos itnemelppus I .amirpetna atseq ni etartsom onos non 01 a 7 ad atiatary amirpetna id anigap anu odneggel iatS .amirpetna atseq ni etartsom onos non 381 a 251 ad atiatary amirpetna id anigap anu odneggel iatS .etnemlarutan D animativ al ereneto id eligecs is es eraloc enoizetorp al noc oproc led atpoc aera1 erirpoc 2Aup is non ehc eraton etnatropmi A .amirpetna atseq ni etartsom onos non 38 a 67 ad atiatary amirpetna id anigap anu odneggel iatS .itrof e enas asso odnetnarag ,osso'led aticserc al e otnemallemir al eraloger a atuia D animativ al .oiclac a otanibba eS .oihcsir otseq ebberridur enituar id D animativ id enoizatemelppus al es orahc arocnA " A noN .enoizaloc al rep ilaeroc e anirgram ,aicnara'd occus ,oretni ettal onodulcni D animativ itacifitrof itnemila .etnemelanumoc' segami ytteG / tneomM / iratapS redaxela .ysetroc otrof .onmaressap non iggar i ,artsenif anu orteid o arbmio ni ies eS .otnemacitaffa e azzehcittis , Atilibatirri ,otiteppa'led enoizumimid ,otimov ,enoizatardisid onodulcni D animativ alled arutasodarvos alled imotnis I .enoizefni j91-divoc( surivanoroc Ativon evarg id oihcsir roggam a onais D animativ id illevil issab noc enosrep el ehc arbmieS .amirpetna atseq ni etartsom onos non 94 a 54 ad atiatary amirpetna id anigap anu odneggel iatS .animativ alled aznatsabba onaiiba en ehc erinarag rep eteid orol el oihcco'd erenet orehbervod inagev iudividni ilg o oisottal la itnarellotni .D animativ noc itacifitrof osseps onos itaesac-oretital ittdorp i @AhcioP .irbmogs e enidras .ozzulrem ,onnot .enomlas emoc assary icsep onos arutan ni D animativ id itnof iroligim el .jgcm 02/ u008 a atnemua enoizussa1 .ina 07 i ortlo iudividni ilg rep .iredisnoc ehc obic eralocitrap nu ni ais D animativ al ehc eracifirov rep ilanoizirtun itaf i e ettehcite el eradtraug etnatropmi A .ituda ilgen etneserp " A otilos id ,ilobed e edibrom aso rep Which is identical to the module the body makes sunlight and vitamin D2 (ergocalciferol), which differs slightly from the D3 in its chemical side chain structure. It is commonly treated with an intense vitamin D D regime under the care of a physician. Vitamin D and Other Health Conditions Vitamin D deficiency has been linked to cardiovascular disease, and people with lower levels of vitamin D appear to be at an increased risk of having a heart attack or stroke. If left unaddressed, vitamin D poisoning can lead to anorexia, over-calcification of the bones and internal organs, kidney stones and hypertension (high blood pressure). The SPF blocks UV rays and can hinder your body's ability to create vitamin D. Thus, vitamin D poisoning is possible if you supplement too much vitamin D over a period of a few months. You're Reading a Free Preview Pages 108 to 123 are not shown in this preview. Low vitamin D has been linked to an increased risk of contracting respiratory illnesses such as influenza A. Photo Courtesy: PixelsEffect/E+/Getty Images Research is also ongoing to find if there's a link between vitamin D and multiple sclerosis (MS). For individuals under 70 years old, the recommended intake is 600IU (15mcg). You're Reading a Free Preview Pages 14 to 22 are not shown in this preview. Photo Courtesy: katleho Seisa/E+/Getty Images If you have a pre-existing medical condition or other medical concerns, it's best to talk to a healthcare professional about determining your recommended dietary allowance for vitamin D. Fortunately, it isn't permanent, and kids can consume as few as 1 to 3 teaspoons of cod liver oil a day to reverse the condition. Dietary supplements are also an excellent way of obtaining vitamin D. If the climate where you live is primarily cloudy, it's important to get your recommended amount of vitamin D via other means. For infants under 12 months, the recommended intake is 400 international units (IU) or 10 micrograms (mcg). It's highly unlikely to occur as a result of normal dietary intake and sun exposure. Daily Dosage Recommendations The recommended dietary allowances for vitamin D vary depending on your age other health and life conditions, such as pregnancy. There is some evidence that vitamin D3 increases and maintains overall slightly better levels than vitamin D2. Side effects of a vitamin D deficiency Vitamin D deficiency occurs when it does not absorb the nutrient properly or when the kidneys cannot convert the nutrient into its active form. However, the exact ratio is unclear, and there seems to be no benefit to the cardiovascular risk in taking a vitamin D supplement. Moreover, this nutrient increases the immune system and reduces inflammation within your body, potentially preventing future medical conditions in the process. UV rays are also known to trigger free radicals, which can lead to skin cancer if left unchecked. Vitamin D can also help protect older adults' from osteoporosis, which occurs due to excess bone loss from aging. It's important to note that vitamin D poisoning usually occurs only with excessive intake of dietary supplements. Photo courtesy: RealPeopleGroup/E+/Getty Images Rickets, a disease characterized by a failure of bone tissues to obtain enough minerals, can cause abnormalities, soft bones and deformities skeletal. It seems that vitamin D deficiency is linked to the development of multiple sclerosis, and people with multiple sclerosis and higher levels of vitamin D appear to have reduced activity disease. Fish liver oils are another good source of vitamin D. 20D%20deficiency.pdf fdp.troper htlaeH dna D nimativ NCAS/616735/eli/afatad\_tnemhcatta/sdaolpu/metsys/sdaolpu/nemrevog/ku.vog.ecivres.gnhisilbup.stessa//spth More from Symptomfind.com has been suggested to get about 15 minutes of sun exposure between 10 A.M. and 3 p.m. At least twice a week for the face, arms, legs or back will help the body synthesize enough vitamin D. 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