

## Nutrition Science and Diet Therapy Resource List

Standard	Concept	Description	Source
<b>Standard 3</b>	Glycolysis	Short animation of how glycolysis works & a check for understanding quiz.	<a href="http://highered.mheducation.com/sites/0072507470/student_view0/chapter25/animation_how_glycolysis_works.html">http://highered.mheducation.com/sites/0072507470/student_view0/chapter25/animation_how_glycolysis_works.html</a>
<b>Standard 3</b>	Kreb's Cycle	Short animation of the Krebs's Cycle and a check for understanding quiz.	<a href="http://highered.mheducation.com/sites/0072507470/student_view0/chapter25/animation_how_the_krebs_cycle_works_quiz_1.html">http://highered.mheducation.com/sites/0072507470/student_view0/chapter25/animation_how_the_krebs_cycle_works_quiz_1.html</a>
<b>Standard 3</b>	Electron Transport	Short animation of the Electron Transport and a check for understanding quiz.	<a href="http://highered.mcgraw-hill.com/sites/0072507470/student_view0/chapter25/animation_electron_transport_system_and_atp_synthesis_quiz_1.html">http://highered.mcgraw-hill.com/sites/0072507470/student_view0/chapter25/animation_electron_transport_system_and_atp_synthesis_quiz_1.html</a>
<b>Standard 4</b>	Estimated Energy Requirements (EER) Equation	Assists in the explanation of how to calculate EER based on BMI.	<a href="http://faculty.mccneb.edu/CVanRiper/Unit%201/Calculating%20BMI%20and%20EER.pdf">http://faculty.mccneb.edu/CVanRiper/Unit%201/Calculating%20BMI%20and%20EER.pdf</a>
<b>Standard 4</b>	Metabolic Equations	The American College of Sports Medicine provides the metabolic equations for common exercises.	<a href="http://certification.acsm.org/metabolic-calcs">http://certification.acsm.org/metabolic-calcs</a>
<b>Standard 4</b>	Thermic Effect of Exercise	An overview of total daily Caloric expenditure, how to estimate thermic effect of exercise, and resting metabolic rate.	<a href="http://krupp.wcc.hawaii.edu/BIOL100L/nutrition/energy.pdf">http://krupp.wcc.hawaii.edu/BIOL100L/nutrition/energy.pdf</a>
<b>Standard 6</b>	Purification of Water	Step-by-step directions of how to remove bacteria and viruses from water.	<a href="http://www.doh.wa.gov/Emergencies/EmergencyPreparednessandResponse/Factsheets/WaterPurification.aspx">http://www.doh.wa.gov/Emergencies/EmergencyPreparednessandResponse/Factsheets/WaterPurification.aspx</a>

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<b>Standard 7</b>	Hydrolysis of Sugar	Short animation of Enzyme Action and the Hydrolysis of Sucrose and a check for understanding quiz.	<a href="http://highered.mheducation.com/sites/0072507470/student_view0/chapter25/animation_enzyme_action_and_the_hydrolysis_of_sucrose.html">http://highered.mheducation.com/sites/0072507470/student_view0/chapter25/animation_enzyme_action_and_the_hydrolysis_of_sucrose.html</a>
<b>Standard 7</b>	Hydrolysis of Sugar Experiment	The experiment illustrates the conversion of starch to a reducing sugar by the action of hydrochloric acid at boiling point. The longer the starch is exposed to the acid the further hydrolysis proceeds. The experiment is intended to show the contrast with enzymes, which do not need high temperatures and prolonged exposure to reagents and give a quick reaction.	<a href="http://www.biology-resources.com/documents/Experiments-sup/02-enzymes/08-hydrolysis-of-starch.doc">http://www.biology-resources.com/documents/Experiments-sup/02-enzymes/08-hydrolysis-of-starch.doc</a>
<b>Standard 8</b>	Diabetes Type I and II	A medical description of diabetes and types.	<a href="http://diabetes.niddk.nih.gov/dm/pubs/overview/">http://diabetes.niddk.nih.gov/dm/pubs/overview/</a>
<b>Standard 9</b>	Celiac Disease	A medical description of celiac disease.	<a href="http://www.mayoclinic.org/diseases-conditions/celiac-disease/basics/definition/con-20030410">http://www.mayoclinic.org/diseases-conditions/celiac-disease/basics/definition/con-20030410</a>
<b>Standard 11</b>	Bomb Calorimeter	A short interactive animation of a bomb calorimeter, allowing students to drag food samples into a bomb calories. A check for understanding quiz is provided.	<a href="http://highered.mcgraw-hill.com/sites/9834092339/student_view0/chapter48/bomb_calorimeter.html">http://highered.mcgraw-hill.com/sites/9834092339/student_view0/chapter48/bomb_calorimeter.html</a>
<b>Standard 11</b>	Fat Extraction Lab	An example of how to conduct a fat extraction lab.	<a href="http://edgemaster13.tripod.com/">http://edgemaster13.tripod.com/</a>
<b>Standard 16</b>	Vitamin C Titration Experiment (Using Pipettes)	A lab experiment on the determination of Vitamin C Concentration by Titration.	<a href="http://www.outreach.canterbury.ac.nz/chemistry/documents/vitaminc_iodine.pdf">http://www.outreach.canterbury.ac.nz/chemistry/documents/vitaminc_iodine.pdf</a>

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<b>Standard 23</b>	Anthropometry Labs	Sample Anthropometry lab exercise.	<a href="http://dshintani.weebly.com/uploads/1/7/9/9/17994351/nut112_anthropometrylabhandout_2012.pdf">http://dshintani.weebly.com/uploads/1/7/9/9/17994351/nut112_anthropometrylabhandout_2012.pdf</a>
<b>Standard 24</b>	Acid Erosion	A lab example of acid, bases, and tooth decay.	<a href="http://bela.usc.edu/pdfdocuments/Lesson%20plans/8th/Acids_Bases_and%20You_Lesson_H_Lai.pdf">http://bela.usc.edu/pdfdocuments/Lesson%20plans/8th/Acids_Bases_and%20You_Lesson_H_Lai.pdf</a>
<b>Standard 25</b>	Acid & Bases Lab	Sample acids and bases lab exercise. Omit non-food items and use a variety foods.	<a href="http://web.stanford.edu/~ajspakow/downloads/outreach/ph-student-9-30-09.pdf">http://web.stanford.edu/~ajspakow/downloads/outreach/ph-student-9-30-09.pdf</a>