

UNIT 1 – STEM BASICS

INTERNET RESOURCES BY LESSON:

LESSON 1: WHAT IS STEM

http://www.lovemyscience.com/cat_dictionary.html

<http://www.vivifystem.com/stem-resources>

LESSON 2: ARE SPORTS PART OF STEM?

<https://stemsports.com/>

<https://www.teacherspayteachers.com/Product/Math-and-Sports-Activity-Bundle-Ratios-and-Proportions-1222226>

<https://www.vivifystem.com/blog/2016/2/2/stem-in-sports>

<https://www.middleweb.com/19300/stem-sports-make-good-match/>

<http://www.edutopia.org/video/learning-physics-skateboarding-engages-kids-science>

<http://youtu.be/nCWc0QZXo38>

<https://www.chevronstemzone.com/>

LESSON 3: DEAF PEOPLE IN STEM, YES!

Deaf Welders:

<https://dcmp.org/media/12299-deaf-and-hard-of-hearing-stem-professionals-let-s-meet-deaf-welders>

<http://deaftec.org/stem/professionals>

<https://www.youtube.com/watch?v=peNrV7wsiQ8>

<https://www.youtube.com/watch?v=hUNfIW4IF-w>

<https://www.facebook.com/groups/365157526830397>

Deaf Auto Mechanics:

<https://www.statesman.com/article/20140219/NEWS/302199659>

https://www.youtube.com/watch?v=S_aYaH6iUQQ

<https://www.youtube.com/watch?v=SCJYNAPRo08>

Famous Deaf Scientists:

<http://deaftec.org/resources/careers/lst>

<https://deafdigest.net/scientists/>

<https://twu.edu/dsc/>

<https://www.sciencenewsforstudents.org/article/deaf-students-can-overcome-hurdles-careers-stem>

How Hearing People Can Learn:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6234809/>

LESSON 4: IS COOKING PART OF STEM?

Vocabulary terms taken, in part, from <http://www.foodmaster.org/documents/Mid-Student-Glossary.pdf> with additions.

<https://www.youtube.com/watch?v=vbvQIKzSmkQ&spfreload=10> - What is Molecular Gastronomy?

<https://www.youtube.com/watch?v=ErDkRerNKvQ> - The Best of Molecular Gastronomy

<https://www.youtube.com/watch?v=SYGmwMWNkdk> - Molecular Gastronomy changes the hamburger!

When to add salt during cooking - and why it makes a HUGE difference:

<https://www.youtube.com/watch?v=E0v32jYkSi0&list=PLnbzopdwFrnb7QgoSDeIJH3R3Y9CagMCI&index=12&t=57s>

Science to making and baking the best gluten-free pizza dough:

<https://www.youtube.com/watch?v=Rh50Cht9tUc&list=PLnbzopdwFrnb7QgoSDeIJH3R3Y9CagMCI&index=17&t=0s>

<http://www.youtube.com/playlist?list=PLnbzopdwFrnb7QgoSDeIJH3R3Y9CagMCI> - The Science of Good Cooking

<http://youtu.be/DJFU7ezipbg>- How to Make a Perfect Pot of Rice Every Time

https://www.youtube.com/watch?v=tsyXL8zKTrM&index=8&list=PLC_zK8DJPi6kZ7D1QaiTmVEag-pByh88S - Alton Brown Makes Meatloaf

https://www.youtube.com/watch?v=E4frrEw_AL8&index=16&list=PLC_zK8DJPi6kZ7D1QaiTmVEag-pByh88S - Alton Brown Makes French Toast

Additional lessons for Middle School http://www.foodmaster.org/grade6-8.html#.WW_j_hg-IUE - This curriculum was developed by FoodMASTER with funding from the The National Institutes of Health: Science Education Partnership Award to present

middle school grade students with twelve basic topics in foods. Each topic area includes hands-on math and science lessons to take your students on an exciting and innovative exploration of food, math and science.

Additional Lessons for Higher Education: http://www.foodmaster.org/highered.html#.WW_khhg-IUE-

<http://cen.acs.org/articles/90/i36/Kitchen-Chemistry-Classes-Take-Off.html>

<http://blog.typsy.com/food-of-the-future-how-molecular-gastronomy-revolutionized-the-dining-experience>

LESSON 5: STEM AS PART OF OUR EVERYDAY LIVES

<http://ionfuture.org/students>

Play this short game to see if you can figure out the best way to maintain a sustainable farm.

<http://educationstation.discoveryeducation.com/sustainability-challenge>

Interested in taking care of animals, play this game to see what kinds of foods and environments different animals needs to thrive:

<http://player.discoveryeducation.com/views/hhView.cfm?guidAssetId=f0d4b88e-314a-4e5b-9c76-4d2d1f85ddd4>

Learning about STEM through agriculture on a Nebraska farm:

<http://www.edutopia.org/video/learning-stem-through-agriculture-nebraska-farm>

<http://www.pbslearningmedia.org/resource/wpsu09-stemcareers.text.lpchoosingSTEMcareer/choosing-a-stem-career/>

<http://unchartedplay.com/home>

https://prezi.com/somh2df_2rn6/stem-in-everyday-life/