

The NCHSE Enhancements

7.0

ABOUT 7.0

The NCHSE Enhancements 7.0 are revised from version 6.0 to include updates in the National Health Science Standards revised in 2022 for current trends in health science education.

Supporting Teachers

Resources

The National Health Science Consortium for Education provides continuous support to all stakeholders in education with curriculum resources, webinars, conferences, and networking.

Networking

NCHSE provides unparalleled professional learning networks for teachers, state leaders, and industry partners. Visit our website.

CONTACT US

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PREFACE

Since the pandemic, health science teachers have been using more technology in the classroom than ever before. In August 2020, the National Consortium for Health Science Education (NCHSE) reached out with the release of the Enhancements 6.0 to support teachers with ready-made digital classroom tools. The National Health Science Standards were updated in August 2022 to reflect current trends in healthcare and health science education. As authors of the Enhancements 6.0, we are very happy to revise this resource, the NCHSE Health Science Curriculum Enhancements 7.0 to reflect those changes. We have also included new activities using evidence-based instruction and higher order thinking with differentiation tips.

The Enhancements provide instructional strategies to teach the National Health Science Standards giving teachers confidence to deliver the material effectively and promote student success. For more in-depth content in career specialty areas like sports medicine, nursing assisting, etc. and material for specialized job certifications, you may want to visit with [members](#) of the NCHSE Publishers/Resource Providers Category for textbooks and other curriculum resources specific to those needs.

The term “data-driven instruction” is in every conversation about curriculum and classroom practices. Please check out the “General Classroom Help” folder for an excel sheet to help you track your students’ mastery of the standards. This is a great reflection tool at the end of the semester/year for teachers. This review will assist you in identifying weak areas where your curriculum may need attention and adjustment and to celebrate strong, successful areas in your curriculum that need to be continued.

The premiere place for health science teachers to share best practices and challenges with each other and get support is the Health Science Educators Association (HSEA), a division of NCHSE exclusively for classroom teachers. Find details about this professional learning community at <https://healthscienceconsortium.org/> You can also get real time help and support on the FREE Facebook group of 3,000+ health science teachers by searching Groups for “Health Science Educators-NCHSE”.

Thank you to the NCHSE Executive Council for supporting classroom teachers as well as supporting administrators and health science state leaders across the nation.

Rhonda Evatt and Katrina Haynes

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INTRODUCTION

The NCHSE Enhancements 7.0 have been developed in alignment with the most recent Foundations Standards released in 2022. The changes were made to support an ever-changing landscape of key knowledge concepts in the ongoing development of health care, education, and preparing students for career readiness job industry certifications, knowledge of gaining meaningful employment, and the pursuit of higher education. To view a summary of the individual changes in the standards, visit the [NCHSE website](#).

Special Note to Classroom Teachers:

Please be aware of any subjects that your administration or school board does not want discussed in the classroom. Please clear any “controversial” subjects with your principal before starting a unit in case you are required to get parental consent (covering the reproductive system, discussion of abortion, religious discussions related to healthcare). While some topics are considered routine in a healthcare setting, you are directly responsible to verify that materials you use in your curriculum are acceptable in a public high school classroom.

Each standard’s folder is equipped with a variety of tools to benefit all levels of Health Science, as well as multiple styles of learning, teaching, and delivery methods. Digital activities can be altered, and most are also in printable form, so they can be used in face to face or digital environments.

You will find instructions on how to navigate through the digital format of the Enhancements. You will also find a folder labeled “Web Links and Resources by Category.” There are three categories:

ALL ANATOMY- This document is packed full of websites with ready-made Health Science lessons, activities, assessments, instructions, and lesson plans. There are also many websites with free images, multimedia, drag and drop/ labeling practice, case studies, interactive lessons, bell ringers, virtual surgeries, and more! All of these have been used in the classroom, are easy to integrate into your own lessons. Because of the vast resources available, some of the body systems units have more activities than others. For those that do not have a separate web links resource page, a vast array of content and activities can be found on these sites.

ALL HEALTH SCIENCE-As with the previous folder, there are over 30 resources listed that are aligned with the National Standards. Many of the standards do not have a web tools resource in the folder because there are an abundance of resources for them listed here. Activities and original resources can also be found throughout the folders.

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TEACHER AND STUDENT CREATIVITY-This list provides links to over 85 tools for you and your students to utilize for creating games, bell ringers, lessons, presentations, escape classrooms, timers, and more fun stuff than can be listed.

Teacher Tech and Assessment Tools -Here you will find links to help you with technology integration, sites to download free templates, short videos on how to do many different things, as well as some of the most popular and useable digital assessment sites. Many integrate with Google Classroom; however, they will work with any browser platform.

Outlines are provided throughout the standards folders. This will break down the main components of expected content for these sections, as recognized by NCHSE. In the left margin, you will find activities, projects, lessons, group work, and digital links that pertain to that section. Links will open directly to videos/ websites, and the other original resources and projects are in the files within that standard.

You will also see the following icons:



- This icon means that the resource is printable



This icon stands for digital /online content



This icon indicates a group activity

Some activities listed may have both the printer and tech icons with them. This means that the activity named can be done digitally or on paper. You can find instructions on how to navigate each resource in the folder the document is in, or within the Power Point labeled with the same name as the activity.

Assessments - The most recent assessments available are from 2017. These assessments are aligned with the National Standards content in the outlines and are intended to provide benchmarks for pre-course and post-course knowledge, as well as serving as test prep for the National Health Science Exam given by Precision Exams to students that qualify as completers to take it. Questions from these assessments are reviewed by NCHSE from time to time, to evaluate depth of knowledge, question wording, format, and relevance. As questions are

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changed on the assessments, they can also be changed in the digital format of the Enhancements. Assessments can now be found all together in the folder labeled “D Assessments for All Standards and Instructions.” The instructions will allow you to access them. There are also two other folders with the assessments already loaded individually into two templates. One template is for Socrative, and another is for Quizziz. Both are digital assessment and activity tools for practicing the tests. They each have a unique template to make it easy to upload to your account. These are already complete with each assessment, and ready to upload to your account on either of these platforms. Additionally, you will find links to short tutorials in the folder, “F. How To and Help Videos for Technology,” that will walk you through the steps to upload these templates in seconds.

These templates for uploading do not support images, graphs and charts. Because of this, assessments for FS 1.3.1 Medical Math, 1.3.2 Analyzing Graphs, Charts, and Diagrams, and 1.3.3 24 hour clock, are not in the Socrative or Quizziz templates. Additionally, there are a few questions in other assessments that require an image, that have been noted within the template that those questions are not there. Ensure that you read any notes, or highlighted cells within the sheets, and delete any of the extra notes prior to uploading. Failure to do this will result in difficulties uploading.

The included resources provided are not intended to be independent curricula. Each state has adopted resources that align with the courses, certifications, and individual state Standards, and the materials provided here are meant to be used as supplements to existing resources, as well as serving as a guideline of expected content to be covered by NCHSE. We realize that many classroom resources do not have web-based content, and that many schools / students are in rural or underserved areas. With these all-new tools, we hope to provide teachers with valuable resources to “enhance” the classroom experience and ease the burden of searching for activities.

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WORKS CITED

**This resource to support health science teachers in their classrooms could not be possible without the generosity and support of other sources offering their content free of charge. We would like to thank each of them for their contributions to help make this a resource like no other for our Health Science community. Each of the images and resources maintain copyrights beyond classroom use, so individual permissions must be granted for utilization of resources for any other reason, to include commercial, and use for personal gain and profit beyond lessons in the classroom setting.

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Creative Commons - Images (copyright allowing lawful sharing in this publication)
Google Expeditions-AR/VR content and lessons
HOSA Future Health Professionals-Activities
Kenhub - Images, multimedia, lesson content
NCHSE 2019 Health Science Education Standards
Pearson Education; Anatomy & Physiology for Health Professions, 3rd edition; Bruce J. Colbert, Jeff J. Ankey, Karen T. Lee
Precision Exams
Multimedia, lessons
TedED-

Your support has been much appreciated, and critical to this publication. Other resources and Works Cited for content and references:

[ACEP: UNTIL HELP ARRIVES](#)
[AHA Heart Disease publications](#)
[Bitmoji.com](#)
[CDC Teacher Lesson Plans](#)
[Center for Practical Bioethics: Patient Self-Determination Act of 1990](#)
[Discovery Education's Puzzlemaker!](#)
[DocWire News: 5 New and Emerging Wearable Medical Devices](#)
[FEMA: Be a Hero: Grades 9-12 Curriculum](#)
[First Aid For Free: Free Online First Aid Courses](#)
[Fun Substance: Video Resource](#)
[Google For Education](#)
[HEALTHCARE.GOV Health Insurance Rights & Protections](#)
[HealthIT.com: Your Health Information, Your Rights PDF Infographic](#)
[Home | NAMI: National Alliance on Mental Illness](#)
[HOSA Competitive Event Guidelines](#)
[Mayo Clinic: Teen depression - Symptoms and causes](#)
[Medical News Today: Dementia](#)

[Mental Health First Aid training](#)

[Merck Manuals: Diabetes](#)

[MHA.org - Youth Test Screening](#)

["My Sister's Keeper" Stream FULL movie free on WarnerBros.com \(click link\)](#)

[National Center for Biotechnology Information When Jessica Died](#)

[NCBI: The State of Health Disparities in the United States](#)

[NCsbn: Changes In Healthcare Professions' Scope of Practice: Legislative Considerations](#)

[New York Presbyterian: How to Prevent 'Tech Neck'](#)

[Pearson Education: Colbert, Ankney & Lee, Anatomy & Physiology for Health Professions- Body systems images/content](#)

[PLOS: Prions—Not Your Immunologist's Pathogen](#)

[Puzzle.org](#)

[Ready.Gov: Community Emergency Response Team](#)

[Sample Medical Record: Monica Latte | Agency for Health Research and Quality AHA.gov](#)

[Simply Psychology: Erik Erikson's Stages of Psychosocial Development](#)

[Sleep Foundation: Sleep for Teenagers](#)

[Stop the Bleed](#)

[Study.com Cloning Lesson Plan](#)

[Teacher Planet](#)

[Teen Mental Health.org](#)

[The New Yorker: What Does It Mean to Die? The story of Jahi McMath](#)

[Troop Program Resources:First Aid Skill Activities](#)

[Types of joints illustration | Premium Vector](#)

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[U.S. Department of Health and Human Services Physical Activity Guidelines for Americans 2nd ed.](#)

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[University of Rochester Medical Center: Microbiology & Immunology](#)

[Upcounsel.com Legal Definition of Privileged Communication](#)

[Vecteezy Copyright/ Attribution Free Images](#)

[Wiley Online Library: Advanced Intelligent Systems](#)

[WWW.HCDECISIONS.ORG- Living Will](#)