



GLOBAL DOCTORS DNA

Genetics + World Health + Global Citizenship

Grade 6-9 (12-15 year olds)



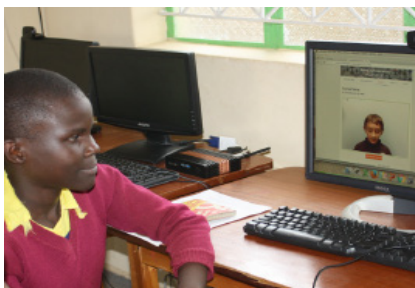
Learn to crack the code of life by discovering genetics through a variety of hands-on activities such as extracting DNA from strawberries and building models of the double helix using candies. Together with their global partners, students explore whether genetics or the environment has a greater impact on leading a healthy life as they present their findings.





HOW IT WORKS

Level Up Village delivers global partnerships and project-based learning to students around the world via an easy-to-use global communication platform which facilitates asynchronous and live video exchanges as well as project collaboration.



21st Century STEAM Content

Students learn about cutting-edge, modern, 21st Century Science, Technology, Engineering, Arts and Math (STEAM) concepts with topics like 3D Printing, Programming, Web Design and Language Arts, via hands-on, practical experiments which inspire curiosity and encourage skills like creativity and problem solving.

Valuable Global Partners

Students are paired with global partners via our global communication platform. LUV provides a safe learning environment where each student builds their own profile, exchanges fun facts about themselves, and connects via guided video exchanges with a global partner. Students from around the world share information using the LUV platform on a camera-equipped desktop computer or mobile device, like a smart phone or tablet.

Teacher Training and Materials

LUV provides all the necessary teacher training and classroom resources to run a LUV program successfully. Through our teacher training program, every teacher becomes a LUV Global Educator, learning how to use our materials, the required software and how to reach out to LUV for support at anytime. We also provide all the teaching materials with access to on-line, digital copies of our curriculum, workbook and any other documentation as needed.

STANDARDS ALIGNMENT OVERVIEW

Just like other LUV courses, Global Doctors DNA aligns with and meets several national and international standards.

Common Core Standards:

Speaking and Listening

- Engage effectively in a range of collaborative discussions with diverse partners, building on others' ideas and expressing their own clearly.
- Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.
- Speak in complete sentences when appropriate to task and situation in order to provide requested detail or clarification.
- Report on a topic or text, tell a story, or recount an experience in an organized manner.
- Report on a topic or text or present an opinion, sequencing ideas logically and using appropriate facts

and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.

- Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation.

Next Generation Science Standards:

Structure and Properties of Matter

- Develop models to describe the atomic composition of simple molecules and extended structures.

Science and Engineering Practices

- Develop a model to predict and/or describe phenomena.

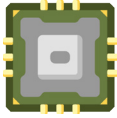
For more information on alignment of LUV courses with Common Core, ISTE, Next Generation Science Standards and UN SDGs, please visit our website.

COURSE CONTENT

Essential Question: What does it mean to be healthy?

<p>Weeks 1-4</p> <p>STEAM Foundation</p> <p>Each topic lesson will take 1-2 hours</p>	<p>Topic 1 - Course overview, sharing and understanding cultures, and LUV Code of Honor.</p> <p>Topic 2 - What does it mean to be healthy? What is DNA?</p> <p>Topic 3 - How are genes inherited? Students will learn how proteins are made and how genetic material is passed from parent to offspring.</p> <p>Topic 4 - Students will learn about respiration and blood pressure and begin to understand how genetics and environment connect.</p> <p>21st Century Skills- Cross-Cultural Skills, Communication, Creativity, and Critical Thinking</p>
<p>Week 4+</p> <p>LUV Profile</p> <p>1/2 - 1 hour</p>	<p>Explore culture and identity and learn how to create a good first impression through an on-line introduction. Complete LUV Profiles on the Student Portal by the end of this week, to be ready to connect with partners from Week 5 onwards.</p> <p>21st Century Skills- Communication and Cross- Cultural Skills</p>
<p>Week 5</p> <p>Course Video 1 & Global Awareness</p> <p>1-2 hours</p>	<p>View partner's LUV Profile and record Course Video One in response to it, and share via the Student Portal. Learn about empathy through understanding the importance of names, and complete a global awareness exercise.</p> <p>21st Century Skills- Communication, Critical Thinking and Cross- Cultural Skills</p>
<p>Week 6</p> <p>Course Video 2 & Project Collaboration</p> <p>1-2 hours</p>	<p>View partner's Course Video One. Respond and discuss environmental influences within own community, sharing ideas in Course Video Two. Complete a health profile project document to share with partners this week.</p> <p>21st Century Skills- Collaboration, Communication, Cross- Cultural Skills, Creativity, and Critical Thinking.</p>
<p>Week 7</p> <p>Group Video 3 & Project Collaboration</p> <p>1-2 hours</p>	<p>View partner's Course Video Two and Health Profile document. Record a responsive group Course Video Three discussing if environmental or genetic factors play a larger influencing role on health. Share multi-media content to discuss how understanding global environmental factors has helped in getting to know, and empathize with, partners.</p> <p>21st Century Skills- Collaboration, Communication, Cross- Cultural Skills, Creativity and Critical Thinking.</p>
<p>Week 8</p> <p>Course Video 4 & Course Reflection</p> <p>1-2 hours</p>	<p>View Course Video Three and shared multi-media content from partner classroom. Reflect on the impact of global communication and STEAM course content. Record a final individual Course Video Four to say farewell to partner.</p> <p>21st Century Skills- Critical Thinking, Collaboration, Communication and Cross-Cultural Skills</p>

TECH REQUIREMENTS



HARDWARE

- >> Windows PC with 8 GB or more RAM and an i5 or better CPU, Webcam
- >> Windows Surface 2 or Chromebook
- >> iMac or Macbook
- >> iPad Air, iPhone 6 or better
- >> Android Tablet or Phone



BROWSERS

- > Teacher Portal: Chrome v51.x or Safari v10.x or better with Flash enabled
 - > Student Portal: Chrome v51.x, Firefox v52.x, Opera v39.x, IE v10.x, Microsoft Edge v13, Safari v10.x or better.
- Note: We only test these browsers but others may also work.



INTERNET

ISP / INTERNET ACCESS

Fiber, Cable, DSL or 4G/LTE Connection with 2MBps download and 1MBps upload.

WIFI ACCESS

802.11G or better in the classroom connecting directly to the ISP.

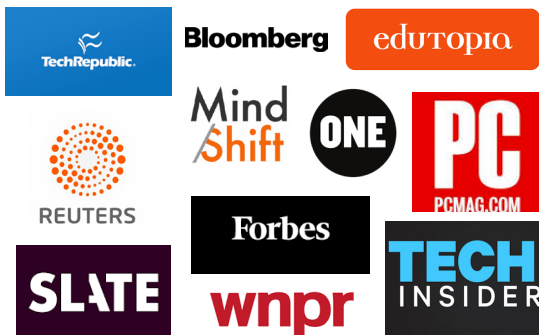


PIONEERING GLOBAL STEAM

Level Up Village's mission is to globalize the classroom and facilitate seamless collaboration between students from around the world via pioneering Global STEAM (STEM + Arts) enrichment courses. Using our Global Communication Platform, students get to know partner students in other countries by exchanging video messages about their lives and their STEAM projects. Through this process, they not only learn 21st Century skills, but also develop empathy and global competency.

Level Up Village is the first organization to receive the ISTE Seal of Alignment at the Proficiency Level for the 2016 ISTE Standards for Students. LUV's pioneering global STEAM courses also align with NGSS and Common Core standards and UN Sustainable Development Goals

As seen in:



Recent awards:



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