



# pgEd in the Classroom

## pged.org



## ABOUT pgEd

Founded in 2006 in the Department of Genetics at Harvard Medical School, pgEd is a team of scientists, social scientists, educators, and community organizers, who talk with people about genetics in every way that it touches our lives - from health to the workplace and from the environment to the criminal justice system.

pgEd's mission is to increase awareness and conversation about the benefits and ethical, legal, and social implications of personal genetics. We believe that far-reaching public engagement about genetic advances is key for a safe and equitable path forward, and from the very beginning, we have partnered with educators to bring these important discussions to classrooms across the US and beyond.



## PROFESSIONAL DEVELOPMENT

pgEd offers an array of professional development opportunities, including multi-day summer institutes, presentations at local and national conferences, and teacher workshops.

Interested in hosting a pgEd workshop in your area? Email [pged@pged.med.harvard.edu](mailto:pged@pged.med.harvard.edu) for more information.

## RESOURCES FOR EDUCATORS

### Lesson Plans

pgEd creates free, interactive lessons that explore the ethical, legal, and social implications of knowing more about one's DNA. We combine accurate scientific content with the real-world impact on people and the choices they may face.

These lessons are relevant to many subjects: biology, genetics, health, social studies, English, law, physical education, psychology, and bioethics.

### SNAPSHOTS

No time for a full lesson plan? pgEd has you covered. Our "SNAPSHOTS" are bite-sized, student-facing modules that students can work through independently in 15-20 minutes. Each SNAPSHOT presents a high-interest topic that lends itself well to small group discussion, online or in person.

### pgEd on PBS LearningMedia

Through a partnership with WETA, pgEd created and adapted several lessons to accompany the PBS documentary, *The Gene: An Intimate History* and season seven of *Finding Your Roots*. Pairing clips from the shows with pgEd activities and discussions creates highly interactive experiences perfect for the classroom or distance learning.

## JOIN OUR MAILING LIST

Stay up to date on our latest workshops and curricula.



# What subjects does pgEd offer for your classroom?



## INTRODUCTION TO PERSONAL GENETICS:

How might new advances in personal genetics impact our lives, our medical decisions and society?



## CONSUMER GENETICS:

What are the potential benefits of and concerns about genetic tests being sold directly to consumers?



## ENGINEERING THE WORLD AROUND US: GENOME EDITING & THE ENVIRONMENT

How might genome editing be used to address the environmental issues we are facing?



## GENETICS, JOBS & YOUR RIGHTS:

How can genetic information inform job choice and impact the kinds of jobs a person could perform?



## DNA, CRIME & LAW ENFORCEMENT:

How will advances in DNA technology impact individuals, law enforcement and society?



## REPRODUCTIVE GENETIC SCREENING: TECHNOLOGY, ACCESS & DECISION MAKING

How does genetic testing of embryos and fetuses offer hope to individuals wishing to have children, and what are the ethical implications of that testing?



## SEX, GENETICS & ATHLETICS

How might the history of sex testing in elite women's athletics help us explore the complexities of human sex variation?



## GENOME EDITING & CRISPR:

How might new advances in our ability to change genomes impact individuals and society?



## CLAIMS OF CRISPR BEING USED TO EDIT GENOMES OF TWIN GIRLS BORN IN 2018:

How can we navigate news headlines to understand emerging genetic technologies and their social and ethical implications?



## HOW DOES ANCESTRY TESTING WORK?:

How are new genetic tools providing a lens for examining human ancestry and why might a person's ancestry results be subject to change?



## PERSONALIZED MEDICINE:

How might our growing access to personalized medicine have an impact on our healthcare?



## GENETICS, HISTORY, & THE AMERICAN EUGENICS MOVEMENT:

How can we as a society avoid the mistakes of the past to take advantage of the promise of genetics?



## USING PRIMARY SOURCES TO EXAMINE THE HISTORY OF EUGENICS:

How can we use primary sources to discover how the eugenics movement became popularized in the United States and Europe?



## DISTANCE LEARNING RESOURCES:

pgEd's library of resources designed for distance learning includes bite-sized student-facing SNAPSHOTS as well as online workshops for educators.

Each lesson can stand alone or multiple lessons can be taught as a unit.  
Visit [pgEd.org/lesson-plans](https://pgEd.org/lesson-plans) as we regularly update our materials to reflect the rapidly changing field.

