

LESSON PLAN



Teacher

Grade Level: 3-5

**Time Allotted
for Lesson: 60 min.**

Subject(s)

English Language Arts & Social Studies

Compelling Question

How have Kentucky's Black inventors contributed to technological advancements and shaped our world?

Supporting Questions

- Who are some significant Black inventors from Kentucky?
- What inventions are they known for, and why are these inventions important?
- How do these inventors' achievements inspire innovation today?

Central Focus of the Lesson

Students will learn about Black inventors from Kentucky, their contributions to science and technology, and the impact of their innovations on everyday life.

Context for Learning

This lesson is designed for students who may have limited prior knowledge about Black inventors and aims to broaden their understanding of historical and contemporary contributions to science and technology.

Kentucky Academic Standard(s)

RI.3.3, RI.4.3, RI.5.3, 3.H.CH.2

C.3.4, C.4.4, C.5.4 (If creating a digital performance task)

Success Criteria/Learning Outcomes

- I can analyze the significance of different inventions.
- I can create an invention to solve a community problem.

Primary/Secondary Sources

- Student nonfiction text about Garrett Morgan's inventions
- Images of Garrett Morgan's inventions

Formative Performance Task

Students will design an advertisement that demonstrates understanding of the importance of one of Garret Morgan's inventions.

Vocabulary

Innovation, Patent, Contribution, Technology, Invention

Accommodations

Visual aids and differentiated texts

Differentiation

Assign more detailed research tasks for advanced learners. Allow students to present their findings in various formats (poster, digital slideshow, oral presentation). Pair struggling readers with peers for collaborative.

Technology and Materials

Tablets or computers for research; access to text about inventions; media for creating visual representation (poster boards, blank paper, markers, or digital tools)

Relevant Background Information for Teachers

Teachers should review the historical context of the time periods these inventors lived in, including the challenges they faced due to racial discrimination, and be prepared to discuss resilience and creativity in overcoming barriers.

Lesson Activities

Introduction (10 minutes):

Begin by introducing [important vocabulary](#).

Introduce the [slides](#) to present the compelling question and show pictures of key inventions and ask students to guess their uses or inventors.

BONUS: As the teacher shows the images, either create as a class OR have students make their own [“I Notice/I Wonder”](#) Chart

Exploration (20 minutes):

Have students [read the texts on two of Garrett Morgan’s Inventions](#). Encourage students to underline, circle, or highlight important information in the text as they read so that they may refer to this when creating their advertisement

Students can read both, students can read one of their choosing, students can work with a small group to read one or both of the texts, or teachers may assign students and groups to [Jigsaw read](#) one or both texts.

Application (15 minutes):

Students create an advertisement for one of Garrett Morgan’s inventions. This can be assessed through a [provided rubric](#)

This can be done on a blank piece of paper, a piece of posterboard, or created digitally on a slide presentation.

Discussion (10 minutes):

Share their creations in small groups or present them to the class.

Taking Informed Action/Extension Activity

Students will brainstorm a modern-day problem and design an invention to solve it, inspired by the inventors studied.

Host a classroom "Innovation Fair" to showcase their designs and share the impact of Black Kentucky inventors with the school community.