

# KIDS KNOW WHAT MAKES ENERGY SENSE

Saver Sleuth: Knows saving energy makes sense

## ALIGNS WITH VIRGINIA EDUCATION STANDARDS IN SCIENCE AND LANGUAGE ARTS GRADES 6-8:

### Science standards include:

PS.5 The student will investigate and understand changes in matter and the relationship of these changes to the Law of Conservation of Matter and Energy. Key concepts include:

- physical changes;
- nuclear reactions (products of fusion and fission and the effect of these products on humans and the environment); and
- chemical changes (types of reactions, reactants, and products; and balanced equations).

PS.6 The student will investigate and understand states and forms of energy and how energy is transferred and transformed. Key concepts include:

- potential and kinetic energy;
- mechanical, chemical, and electrical energy; and
- heat, light, and sound.

### Language Arts standards include:

6.1 The student will participate in and contribute to small-group activities.

- Communicate as leader and contributor
- Evaluate own contributions to discussions
- Summarize and evaluate group activities
- Analyze the effectiveness of participant interactions

6.2 The student will present, listen critically, and express opinions in oral presentations.

- Distinguish between fact and opinion
- Compare and contrast viewpoints
- Present a convincing argument
- Paraphrase and summarize what is heard
- Use language and vocabulary appropriate to audience, topic, and purpose

6.6 The student will read and demonstrate comprehension of a variety of nonfiction texts.

6.7 The student will write narration, description, exposition, and persuasion.

6.8 The student will edit writing for correct grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing.

6.9 The student will find, evaluate, and select appropriate resources for a research product.

7.1 The student will participate in and contribute to conversations, group discussions, and oral presentations.

## THIS PROGRAM ALSO ALIGNS WITH COMMON CORE STATE STANDARDS IN ENGLISH LANGUAGE ARTS GRADES 6-8:

CCSS.ELA-LITERACY.WHST.6-8.1

Write arguments focused on discipline-specific content.

CCSS.ELA-LITERACY.WHST.6-8.1.A

Introduce claim(s) about a topic or issue, acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically.

CCSS.ELA-LITERACY.WHST.6-8.1.B

Support claim(s) with logical reasoning and relevant, accurate data and evidence that demonstrate an understanding of the topic or text, using credible sources.

CCSS.ELA-LITERACY.WHST.6-8.1.C

Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.

CCSS.ELA-LITERACY.WHST.6-8.1.D

Establish and maintain a formal style.

CCSS.ELA-LITERACY.WHST.6-8.1.E

Provide a concluding statement or section that follows from and supports the argument presented.

CCSS.ELA-LITERACY.WHST.6-8.2

Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.

CCSS.ELA-LITERACY.WHST.6-8.2.A

Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories as appropriate to achieving purpose; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.

CCSS.ELA-LITERACY.WHST.6-8.2.B

Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.

CCSS.ELA-LITERACY.WHST.6-8.2.C

Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.

CCSS.ELA-LITERACY.WHST.6-8.2.D

Use precise language and domain-specific vocabulary to inform about or explain the topic.

CCSS.ELA-LITERACY.WHST.6-8.2.E

Establish and maintain a formal style and objective tone.

CCSS.ELA-LITERACY.WHST.6-8.2.F

Provide a concluding statement or section that follows from and supports the information or explanation presented.

CCSS.ELA-LITERACY.WHST.6-8.7

Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.

CCSS.ELA-LITERACY.WHST.6-8.8

Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.

CCSS.ELA-LITERACY.WHST.6-8.9

Draw evidence from informational texts to support analysis, reflection, and research.



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VIRGINIA ENERGY SENSE



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