To our teachers:

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SAVING TODAY IS solarWise TOMORROW WISE	**Wisconsin Public Service** **SolarWise for Schools** **and the** **Center for Renewable Energy** **Advanced Technological Education**	CREATE

ARTICLE SUMMARY

INSTRUCTOR'S GUIDE

Grade Level: High School, Technical College, Community College
Lesson Length: 2-4 class hours, depending on emphasis and how assigned
Author: Scott Liddicoat
Created: October, 2023

Objectives:

- Students will research science topics from newspapers or magazines and write a guided summary and evaluation of what they have read.

The Main Thing:

The Article Summary is designed for students to complete in response to reading on a topic from a newspaper or periodical, hardcopy or electronic. Using the Article Summary will enable students to develop depth on a topic within the curriculum or develop an interest in a topic suggested by the curriculum. Potential Article Summary topic research areas are suggested at the bottom of each unit cover page. Following are those same suggestions, reproduced here for your convenience.

Potential Article Summary research topics for **Energy:**	• Energy conservation • Energy lifestyles around the world • Future energy predictions • Future energy resources

Potential Article Summary research topics for **Energy Efficiency & Conservation:**	• Additional conservation and energy saving methods • Pollution consequences of burning fossil fuels • How to build a zero energy (or low energy) use building • Compare school building energy use state/nationwide

Potential Article Summary research topics for **Renewable Energy:**	• Additional conservation and energy saving methods • Pollution consequences of burning fossil fuels • How to build a zero energy (or low energy) use building • Fuel cell technology • Topics in uncommon renewables: biomass and ethanol

Potential Article Summary research topics for **Solar Photovoltaic Energy:**	• Practical and scientific uses of the Sun in ancient cultures • Additional uses or applications of EMR • Solar PV applications • New solar PV technologies

Teacher Notes:

Students select an article to read based on your instructions. Following the instructions on the Article Summary, they write responses to the numbered directives on the form. The directives require students to process and respond to their article at many different levels. The different levels loosely correspond to the levels of abstraction associated with Bloom's Taxonomy (Knowledge, Comprehension, Application, Analysis, Synthesis, Evaluation).

You may use the Article Summary in many different, creative ways. You may give students very general guidelines on article selection, or you may assign students a specific article to read. You may assign groups of students sub-topics to find an article on, within a general topic area. For example, your general topic might be renewable energy sources, and you assign some students to locate articles on hydropower, others wind energy, others solar energy, and so on.

The Article Summary is designed for students to complete individually, with no two students summarizing the same article. This will allow for a variety of interesting topics to be summarized throughout the classroom. Teachers who use the Article Summary often require students to gain approval to use a particular article. This way, the teacher

can verify that no two students are using the same article and can check to make sure the student is using an appropriate article in terms of topic and readability.

Students may simply complete the Article Summary and be assessed on their ability to follow instructions and the quality of their written responses. Many teachers find it very useful to have students report orally on what they have read and written to develop greater whole-class understanding of a topic. Individual students may do oral reports. Several good cooperative group structures support oral reporting within small groups first, leading eventually to whole-class discussions.