



WEATHERIZATION

TOPIC OF STUDY

Weatherization



90 MINUTES

KEY TERMS

Modern Weatherization Measures: based on recent lessons in building science

Old School Weatherization Measures: while still done, are not as cost effective

LESSON

Deferral of Weatherization Measures

OBJECTIVES

Students will:

- Identify reasons for deferral of weatherization
- Describe how impediments may be rehabilitated to allow for weatherization to proceed

BIG IDEA(S)

Weatherization may sometimes need to be postponed.

TASK LIST SUBCATEGORY

- 102 Describe how energy is fundamental to our everyday lives
- 106 Describe the impact of energy systems (economic, health, environmental)
- 801 Identify the principles of building science
- 810 Use energy efficiency industry vocabulary

OVERVIEW

Weatherization may sometimes need to be postponed, often due to a safety concern. Sometimes the decision to defer can be optional, but other times deferral is mandatory. Optional deferrals may include unsanitary conditions, threatening animals, or uncooperative clients. Mandatory deferrals include vacant buildings, severe moisture problems, structural issues, and the presence of lead-based paint. Weatherization cannot take place until these issues are resolved.

STANDARDS

PA/SDP

- 3.4.10.A2.** Interpret how **systems** thinking applies logic and creativity with appropriate comprises in complex real-life problems.
- 3.4.12.B1.** Analyze ethical, social, economic, and cultural considerations as related to the development, selection, and use of **technologies**.
- 3.4.12.C3.** Apply the concept that many technological problems require a multi-disciplinary approach.
- 3.4.12.E3.** Compare and contrast energy and power **systems** as they relate to pollution, renewable and non-renewable resources, and conservation.

INSTRUCTIONAL

TEXT/REFERENCES

Training Handbook, p. 23

MATERIALS NEEDED

Technology: Device with internet to watch YouTube video





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IMPLEMENTATION (LESSON PLAN)

ENGAGE

- Ask students to explain what might prevent weatherization procedures to take place. Sometimes these are decided by the weatherization provider. *"What would get in the way of doing work in a home?"* List student responses on board.

EXPLORE

- Review p. 23 in the Handbook that provides specific reasons why weatherization can not go forward.
- Assign one optional and one mandatory deferral reason from the list on p. 23 to each pair of students. Have student pairs discuss each problem. Have students role play the scenario and determine the best way to handle each situation in a professional manner. Have each student team present to the whole class one (or both if time allows) of the assigned deferral issues. One student can be the tech and the other student can take on the role of the client.

EXPLAIN

- Complete the Year 1 Lesson 7 worksheet.

EXTEND/EVALUATE

- Have students practice writing a deferral letter to the client explaining the next steps in resolving the problem and rescheduling weatherization.

HOMEWORK

Review the sample deferral checklist.

RESOURCES/LINKS

DCED HOME Program: Weatherization Deferral

<https://dced.pa.gov/download/home-program-appendix-3-weatherization-deferral-pilot-initiative-2017/?wpdmdl=86362&ind=0>

PA Weatherization Field Guide

<https://www.paweatherization.org/vertical/sites/%7BF27E296C-7668-49FF-9408-DF453C70C62E%7D/uploads/%7BCA71D0C1-C3CE-4B1A-9858-B75BD3F5AF92%7D.PDF>

