

# Climate Change Collection Scorecard

Date: 11/27/04

Reviewer: Jack Ganse

Name of resource: The Greenhouse Effect

Sponsoring Organization UCAR LEARN

URL: [http://www.ucar.edu/learn/1\\_3\\_1.htm](http://www.ucar.edu/learn/1_3_1.htm)

Site Homepage: <http://www.ucar.edu/learn/index.htm>

RESOURCE WITHIN A SITE?  Y / N

FOUND THROUGH DLESE?  Y / N

**RECOMMENDATION**  YES YES WITH RESERVATIONS NO

**STARS** 1 2 3 4  5 (LAME TO STELLAR)

NARRATIVE (USE OTHER SIDE IF NEEDED)

This site provides comprehensive background information on the greenhouse effect. Topics range from solar radiation, greenhouse gases, Earth's radiation budget, to the greenhouse effect itself. Two hands-on activities about greenhouses with both teacher and student guides are also included.

## INTENDED USE

REFERENCE

COMPUTER ACTIVITY

NON-COMPUTER ACTIVITY

EDUCATOR, LEARNER OR  BOTH (CIRCLE)

BEGINNER OR ADVANCED (CIRCLE)

## BUGS & TECHNICAL DIFFICULTIES (PROBLEMATIC TO ROBUST)

1 2 3  4

COMMENTS: None

## FACTUAL ERRORS/OMISSIONS (NATIONAL ENQUIRER TO NATIONAL GEOGRAPHIC)

1 2 3  4

COMMENTS: Although it does use both the "blanket" and "heat trap" references, the site does go on to explain and show how the greenhouse effect works at the molecular level. There, it is quite unique in its explanation compared to other resources. The site clearly points out that the analogy that the Earth's atmosphere acts like a greenhouse does have its limitations.

## PEDAGOGICAL INFORMATION

REFERENCE ONLY

TEACHER GUIDE

MATERIALS LIST

ASSESSMENT STRATEGIES

TIMEFRAME PROVIDED

STANDARDS ALIGNMENT

## PROMOTES STUDENT LEARNING (WEAK TO STRONG)

1 2 3  4

COMMENTS: Using the complete package including teacher guide, student guides, and the hands-on activities will lead both teachers and students to much better understanding of the greenhouse effect.

## APPROPRIATE/EFFECTIVE MULTIMEDIA DESIGN (WEAK TO STRONG)

1 2 3  4

COMMENTS: Graphic and animation provide solid support for the text.

## VISUAL APPEAL (WEAK TO STRONG)

1 2  3 4

COMMENTS: Easy-to-read; mostly text, but ample graphics and one animation. No printer-friendly student pages.

## TEACHING TIPS: ANNOTATION DESCRIBING HOW SITE COULD BE USED OR ADAPTED FOR CLASSROOM

Great background material for any knowledgeable teacher. The site provides questions designed to assess students' knowledge and understanding of the greenhouse effect and leads to two activities about greenhouses that are

aligned to standards and fully outlined with materials, procedures, time, and assessment ideas.