

Lesson Plan Idea Format

Grade Level & Subject Area: 6th grade Science

Standards/Framework (State Standards, Content Standards, InTASC Standards)

- 6-PS3-5 Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object
- 6-PS3-3 Apply scientific principles to design, construct, and test a device that either minimizes or maximizes thermal energy transfer

Theme/Series of Lessons (if Not applicable, put N/A. If it is part of a series, of lessons, tell me, give a BRIEF description of the overall and tell me where this particular lesson fits):

- Transferring energy to another object.

Time (is this a 1 day 50 minute lesson, 5 day 1 hour lesson, once a week over a month lesson....):

- 1 day 50-minute lesson

What do the students already know? (This could be the Intro or they have learned information before starting this lesson):

- Students should know basic information about temperature and thermal energy.

Objective (What are the students' going to accomplish):

- The students will have a basic understanding of how the energy transfer could change the temperature of an object in a given amount depending on the size, matter, and nature of the sample.

Materials:

- Microwave
- popcorn
- Video

- **Inspiration web**

Procedure:

- **Cause and effect**
- **Popping the popcorn**
- **Writing their thoughts about the procedure of popping the kernels.**

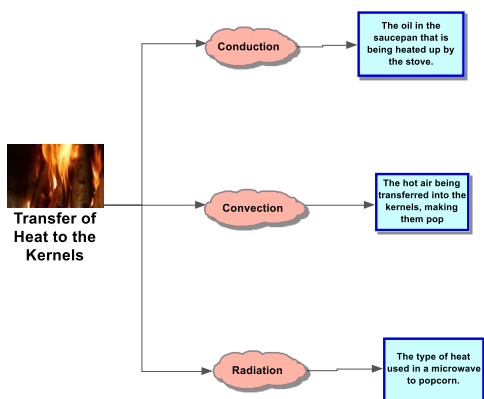
Assessment (How will the students' show you that the objective has been met):

(Note: the assessment does not have to be a paper and pencil test)

- **The students will write why they think the kernels popped into popcorn and what was the ending results.**

A Brief Description Of The Entire Lesson - Plus Any Additional Information to be Included:

- The lesson will start off with me asking a question, "How do you think popcorn is made?" After giving them time to answer, I will then show them a video about how energy is transferred. I will then ask them "After seeing the video, why do you guys think the popcorn kernels pop?" and get them to write their answer down. Afterwards, I will pop some popcorn in the microwave and explain to them how the heat energy is being transferred. I will have the students write the cause and effects they think happens during the time the popcorn was being microwaved. Afterwards, I'll get them to write down what types of heat transfer occurs if the popcorn was popped in a pan. I will then present my own cause and effect that I have made in inspiration.
- I got the popcorn lesson idea from my middle school teacher.



**(I should be able to see and understand your entire lesson by reading this.
Remember, Technology is not the lesson. It enhances the lesson)**