

## Lesson 1: How is Air Heated?

### Activity 1.2

#### Purpose

The purpose of this activity is to show how sunlight can heat air.

#### Word Wall Words

Thermometer: \_\_\_\_\_

Conduction: \_\_\_\_\_

#### + Safety

Be careful with the heat lamp. As the name implies, it gets hot.

#### Procedure

Place a sheet of aluminum foil, and black felt side by side on a table. Place a thermometer just above each surface. Record the temperature on each thermometer in the row labeled start. Place a heat lamp about half a meter above the table. Turn the heat lamp on. Record the temperature on each thermometer every 20 seconds for 5 minutes.

#### Data Table

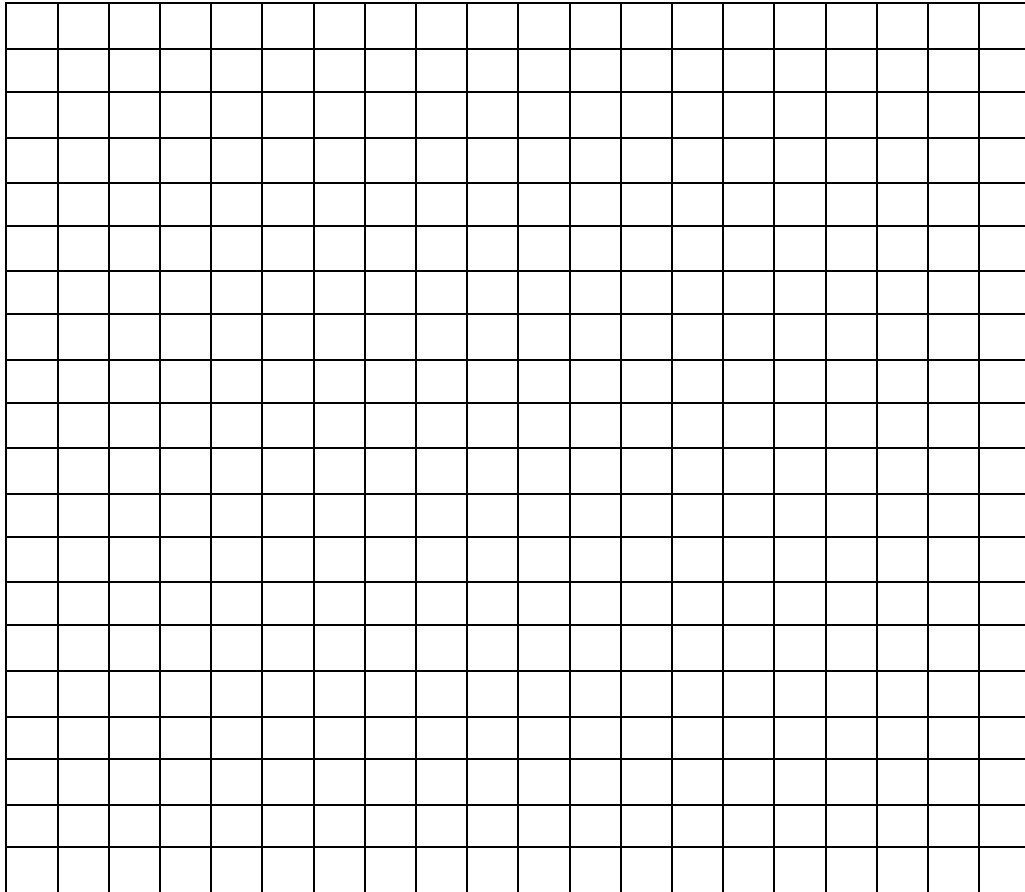
Time	Air Temperature Above Aluminum Foil	Air Temperature Above Black Felt		Time	Air Temperature Above Aluminum Foil	Air Temperature Above Black Felt
Start				2:40		
0:20				3:00		
0:40				3:20		
1:00				3:40		
1:20				4:00		
1:40				4:20		
2:00				4:40		
2:20				5:00		

#### Your Progress:

- Mastery
- Proficient
- Developing
- Beginning

## Analysis

Draw a line graph below using your data you collected.



## Conclusion

Go to Google Classroom ([classroom.google.com](https://classroom.google.com)) and answer the following question:

**How is air heated?**

Make sure you answer the question with a clear and concise **claim**. Be sure to support your answer with **evidence** from this lab. Explain your **reasoning** using a scientific principle.