

Heat Helpers

Students observe a heat application and record a before-and-after change.

1.8.A "investigate and describe applications of heat in everyday life such as cooking food or using a clothes dryer; and"

NAME _____

DATE _____

Teacher: this page is run aloud. The script and answers are on the guide page.

1 USES HEAT _____

a	bake	read	jump
b	book	dryer	ruler
c	pencil	door	heater

2 HEAT JOBS _____

bake	•	•	room
dryer	•	•	food
heater	•	•	clothes

HOW TO RUN THIS PAGE

Run a teacher demonstration before the recognition practice. Follow school material/allergy rules. Put equal small pieces of butter in two sealed clear containers, labeled WARM and ROOM. Children first observe both pieces. An adult stands WARM in a bowl of warm, not hot, tap water and leaves ROOM on the desk for the same time. Keep children away from the water; no tasting or opening containers.

Observe for several minutes and compare visible softening or melting. The adult checks the demonstration beforehand so a change can be seen. Children draw or dictate before/after observations and explain that adding heat can soften butter for cooking. Record actual results, not an assumed complete melt. Read every printed task aloud. Give each child an extra sheet folded into two spaces labeled BEFORE and AFTER; accept child drawings or adult scribing. Read this observation prompt aloud: Look at both sealed butter pieces before the demonstration. Draw or tell me what you see in BEFORE. Watch the WARM piece and compare it with ROOM after the same wait. Draw or tell me what changed in AFTER. What evidence shows how heat helps soften butter for cooking?

Students never read directions on this sheet. Read each part's script aloud, then each prompt, giving think time before students mark.

PART 1 • USES HEAT

SAY “Heat can help with jobs we do every day. I will read each row. Listen to the words, then circle the answer to each question.”

ROW	SAY	STUDENTS CIRCLE
a	Which job can use heat: bake, read, or jump?	bake
b	Which machine can use heat: book, dryer, or ruler?	dryer
c	Which thing can use heat to warm a room: pencil, door, or heater?	heater

PART 2 • HEAT JOBS

SAY “Look at the words on the left and the words on the right. Draw a line from each heat helper to what it helps with.”

- **bake** matches **food**
- **dryer** matches **clothes**
- **heater** matches **room**

WHAT TO ACCEPT

Circle-row answers are bake, dryer, and heater. Match bake to food, dryer to clothes, and heater to room. Require the actual warm/room demonstration and child before/after observation with a heat-application explanation. Accept actual results and adult scribing; recognize that both pieces can soften somewhat. The original recognition answers alone do not finish the investigation. BEFORE: Both starting butter pieces and their initial solid shapes, described from actual observation. AFTER: Actual observed change and comparison: typical WARM piece becomes softer or begins to melt while ROOM changes less. Describe heat helping soften butter; do not require full melting.