

WHAT'S COOKING



PHYSICAL SCIENCE

READER



READING

1

CLOSE UP p.1

Discussion Questions:

1. Why is it important to examine properties of objects up close with tools rather than just with our human eyes?
2. What other women have played important roles in scientific discoveries?



READING

2

ALL ABOUT ALUM p.9

Discussion Question:

1. What can help you tell things apart if they look alike?



READING

3

SWEET CORN p.13

Discussion Questions:

1. What dishes or baked foods can you find that use a form of corn in the ingredients?
2. What other cultures consider corn a staple food?



READING

4

INVISIBLE

AIR p.19

Discussion Questions:

1. What are three ways from the text that people use air?
2. What other ways can you think of for people using or needing air?



READING

5

WHAT'S THE SOLUTION? p.25

Discussion Questions:

1. How many solutions can you think of?
2. Why is it important that solids and liquids can be used to make solutions?



READING

6

WHAT'S THE POINT? p.33

Discussion Question:

1. Why do we need materials with high and low melting points?



READING

7

SOMETHING NEW p.39

Discussion Question:

1. What properties can you observe that mean a chemical reaction has occurred?

GRADE 5 PHYSICAL SCIENCE: *What's Cooking*

Smithsonian Science for the Classroom Module: *How Can We Identify Materials Based on Their Properties?*

"Close Up"

Why is it important to examine properties of object up close with tools rather than just with our human eyes? (*We can learn more about properties by looking closely. Our eyes can't see all the properties.*)

What other women have played important roles in scientific discoveries? (*Marie Curie and her daughter made important discoveries.*)

"All About Alum"

What can help you tell things apart if they look alike? (*Crystal shape, color, taste if you know it's safe to taste.*)

"Sweet Corn"

What dishes or baked foods can you find that use a form of corn in the ingredients? (*Cornbread, tortillas, grits, fried chicken, popcorn, chips*)

What other cultures consider corn a staple food? (*Mexican, Caribbean, South American*)

"Invisible Air"

What are three ways from the text that people use air? (*Inflating a ball, for a hot air balloon, for military airships*)

What other ways can you think of for people using or needing air? (*Heating or cooling a home, breathing*)

"What's the Solution"

How many solutions can you think of? (*lemonade, chocolate milk, tomato soup, broth, cream sauce, a milkshake*)

Why is it important that solids and liquids can be used to make solutions? (*Solutions like nectar are important for plants to grow and animals to eat.*)

"What's the Point"

Why do we need materials with high and low melting points? (*We need materials that can cook foods at high temperatures and not melt. We need materials like beeswax to melt so we can use it to heal dry, cracked lips.*)

"Something New"

What properties can you observe that mean a chemical reaction has occurred? (*Color changes, smell change, bubbles form*)