

Oil and Water Worksheet

Use at least 3 words to describe how crude oil looks:

Use at least 3 words to describe how crude oil smells:

Measuring the spill:

0 seconds: _____ diameter **OR** _____ length by _____ width

30 seconds: _____ diameter **OR** _____ length by _____ width

1 minute: _____ diameter **OR** _____ length by _____ width

2 minutes: _____ diameter **OR** _____ length by _____ width

3 minutes: _____ diameter **OR** _____ length by _____ width

Oil and Water Description:

Use at least 3 words to describe how the water feels:

Use at least 3 words to describe how the water and oil mixture feels:

(Optional) When the oil and water interacted, was there a chemical reaction? Explain your reasoning:

Materials in Oil

Record your predictions about how each material will react to being dipped in water and the water/oil mixture.

I predict that (material) _____ will:

_____ when dipped in the
water and will:

_____ when dipped in the oil and water mixture.

I predict that (material) _____ will:

_____ when dipped in the
water and will:

_____ when dipped in the oil and water mixture.

I predict that (material) _____ will:

_____ when dipped in the
water and will:

_____ when dipped in the oil and water mixture.

I predict that (material) _____ will:

_____ when dipped in the
water and will:

_____ when dipped in the oil and water mixture.

Then, conduct the experiments. Look and feel the materials closely after you dip them in the water and the oil/water mixture. Record your observations here.

The (material) _____ became:

_____ when dipped in the water and became:

_____ when dipped in the oil and water mixture.

The (material) _____ became:

_____ when dipped in the water and became:

_____ when dipped in the oil and water mixture.

The (material) _____ became:

_____ when dipped in the water and became:

_____ when dipped in the oil and water mixture.

The (material) _____ became:

_____ when dipped in the water and became:

_____ when dipped in the oil and water mixture.

Changing Oil

What are you going to do to change the oil?

Make a hypothesis about how the oil will change:

Why do you think the oil will change in these ways?

Conduct your experiment. How did the oil actually change?

(Optional, include if your class is working on this topic) When you made a change to the oil, was there a chemical reaction? Explain your reasoning:
