

# Participation Assignment

## CHEM 1090-General Chemistry I

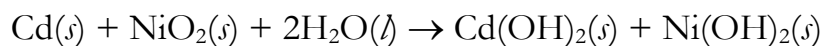
Name:

#12

Section: 32, TR

Due Date: Tuesday 3/3/2020

1a. Assign oxidation numbers to each atom in the following reaction:



b. What is oxidized?

c. What is reduced?

d. What is the oxidizing agent?

e. What is the reducing agent?

2a. Assign oxidation numbers to each atom in the following reaction:



b. What is oxidized?

c. What is reduced?

d. What is the oxidizing agent?

e. What is the reducing agent?

3. Define each of the following:

a. energy

b. heat

c. exothermic

d. endothermic

4. Calculate the amount of heat in kilojoules transferred when a can of soda is cooled from 25.0 °C to 3.0 °C. The mass of a can of soda is about 369 g and assume we are only concerned with the contents and not the container.

Assume the specific heat of the soda is  $4.18 \frac{\text{J}}{\text{g}^\circ\text{C}}$ .