Nano Activities

**Activity 1:** Each container has only water and pieces of iron in it.

**Materials:**
- Magnet
- Bottles w/different types of iron

**Steps:**
1. Look at and compare the 3 bottles with different types of iron in them. What do you notice about them? Write down any observations.

2. Place a magnet next to the bottle at the top. Slowly move the magnet towards the bottom of the bottle where the iron is. What do you notice? Write down any observations.

**Observations:**

3. Compare the three bottles. List how they are different.

4. What do you think the reason is for why the iron filings behaved so differently?

**Activity 2:** The same material has been used to color each of the pieces of glass.

**Materials:**
- Different pieces of stained glass
- Flashlight

**Steps:**
1. Observe the pieces of stained glass using the flashlight. Try to infer how they got their colors.

**Inferences:**

**Activity 3:** A piece of steel has been heated for a short time.
**Materials:**
- Piece of steel

**Steps:**
1) Observe the steel in the light. Do you notice any differences? Can you tell which end was not heated?

**Observations:**

2) Make some inferences about why the heated steel appeared different.

**Inferences:**

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**Activity 4:** One piece of wood has been treated with a substance. The other end has not.

**Materials:**
- Wood  
- WetSpray  
- Beaker w/water  
- Eye dropper

**Steps:**
1) Add a drop of water to both sides of the wood. Do you notice any differences? Which side is the treated one?

**Observations:**

4) Why did the drop of water behave differently? Make some inferences.

**Inferences:**