Name	Teacher	Date

Activity 2.2: Powers of Ten Cards

The card packets for the sorting activity are on the next two pages. They should be printed on card stock (either in color or black and white), cut up, and put into envelopes or paper clipped together—one packet per group of four students.

Each row of the packet shows a system at the four different scales:

- 1. Plant system: 1) forest, 2) pine tree, 3) stomata on a leaf, 4) glucose molecule
- 2. People system: 1) Lots of people, 2) person breathing, 3) red blood cell, 4) oxygen molecule
- 3. Water system: 1) Large lake, 2) drop of rain, 3) snowflake, 4) water molecule
- 4. Fuel system: 1) natural gas deposit, 2) propane gas bottle, 3) inside a flame 4) propane molecule
- 5. Fire system: 1) forest fire, 2) trees burning, 3) ash, 4) carbon atom
- 6. Pollen System: 1) atmosphere, 2) pollen on a flower, 3) pollen grains, 4) cellulose

Photo Credits:

Natural Gas Deposit, Propane Gas Tank, Inside a Flame, Propane Molecule, Oxygen Molecule, Cellulose Molecule, Water Molecule, Glucose Molecule, Carbon Atom: Craig Douglas, Michigan State University

Lots of People, Person Breathing, Atmosphere, Pollen on a Flower, Large Lake, Drop of Rain, Forest, Pine Tree, Forest Fire, Trees

Burning: Hannah Miller, Michigan State University Red Blood Cell: Courtesy of Ken Bart and FEI

Pollen Grains: Courtesy of Frans Holthuysen and FEI

Snowflake: Courtesy of Olga Kleinerman

Stomata on a Leaf: Courtesy of David McCarthy and FEI

Ash: Courtesy of Yousef Abu Salha and FEI





