Leonardo da Vinci- The Artist and Inventor
Fourth Grade/Fifth Grade classes

VA.A.1.2.VA.C.1.2.VA.E.1.2. SC.4N.3.1 SC.5P.13.1 SC.5P.1

Objective: Students will understand the following:

1. The six simple machines are the basis for all mechanical devices.

2. The six simple machines are as follows: the inclined plane, the lever and fulcrum, the wedge, the screw, the wheel and axle, and the pulley.

3. Leonardo da Vinci was one of the greatest inventors of all time.

4. Each of his designs implemented one or more of the simple machines.

Vocabulary: Renaissance, design, artisan, posterity, sculpture, legacy

Materials: 1. Packet on da Vinci

2. cardboard, boxes, cans, recycled materials

Procedure: 1. Discuss and review (show examples) the six simple machines with the students.

2. Have students build sculptures that represent one of the simple machines.

3. Have each student write/draw an explanation of their simple machine sculpture.

4. Have each student present its’ simple machine sculpture to the class.

5. Have students discuss how Leonardo da Vinci implemented simple machines into his designs.

Evaluation:

1. Which sculpture best represents a simple machine as well as the elements of art successfully?