

NAME:

1. **Express the following quantities in base metric units. Give your answer in both conventional decimal and scientific notation (where appropriate).**

A) 4.2 kilograms (kg)

B) 293 micrograms (μg or mkg)

C) 0.67 millimeters (mm)

D) 75 nanoliters (nL)

2. **Review Lecture 5 “Conversion of Units” on the school website homework page.**

3. **Convert (use *scientific notation* where appropriate):**

A) **990 pounds** (the weight of a Concert Grand Piano by Steinway) **to kilograms**

B) **-130°F** (the lowest natural temperature ever directly recorded at ground level on Earth) **to $^{\circ}\text{C}$ and K**

C) **30 microliters** (the volume of a typical raindrop) **to gallons**

D) **40,075 km** (the length of the Earth’s equator) **to miles**