PURE QUARTZ SAND

Describe the Substances

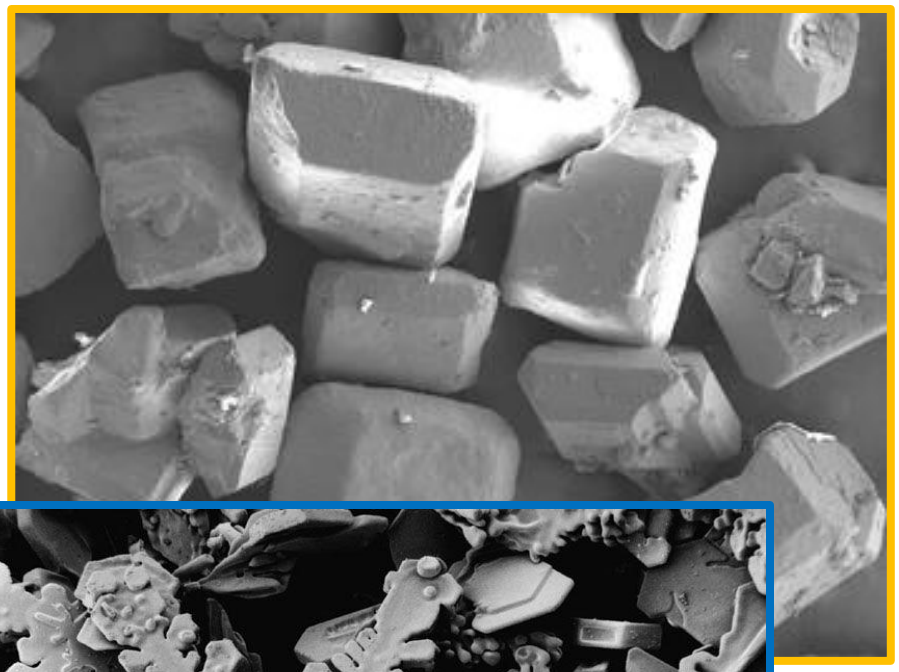
TABLE SALT

SUGAR

SNOW

Describe the Crystals

TABLE SALT



SUGAR

SNOW

Measurement

- the **assignment of numbers** to objects or events
- a type of **quantitative observation** made with a **measuring instrument**
- includes both a **number** and a **unit**
- a **comparison** against a **specified *(known)* quantity**
- **units** of measurement are essentially **arbitrary: people make them up** and then **agree to use them**

Measuring is an important part of everyday life!

What can we measure?

Why do we measure?

How can we measure?

How well can we measure?

WHAT can we measure?

- Length/Distance
- Depth of water
- Weight
- Volume
- Time
- Temperature
- Electric current
- Light
- Color

And HOW?

- ✓ Ruler/Measuring Tape
- ✓ Rod/Cable/Sonar
- ✓ Weighing scale
- ✓ Standardized Container
- ✓ Clock, timer
- ✓ Thermometer
- ✓ Ammeter
- ✓ Photometer
- ✓ Spectrometer

AND SO ON...