Science 3 – 5 for use with NGSS 2013:

Physical Science: Matter and Its Interactions

Particle Model of Matter

Students	Learning Continuum Statements:
Students:	RIT 181-190:
	 Infers that objects of different shapes and/or sizes can be made from the same set of smaller pieces, using observations
Students:	RIT 191-200:
	 Applies a particle model of matter to explain the expansion and compression of objects and substances Relates molecular/particle motion and spacing to the states/phases of substances, using a model
	 Develops and uses models to demonstrate that gases are made of unseen particles Infers that objects of different shapes and/or sizes can be made from the same set of smaller pieces, using observations
Students:	RIT 201-210:
	 Applies a particle model of matter to explain the expansion and compression of objects and substances Relates molecular/particle motion and spacing to the states/phases of substances, using a model Relates molecular/particle motion and spacing to changes in temperature/heat/thermal energy of a substance, using a model
Students:	RIT 211-220:
	 Applies a particle model of matter to explain the expansion and compression of objects and substances Applies scientific ideas to explain how molecular movement affects the density of substances in different states of matter Relates molecular/particle motion and spacing to the states/phases of substances, using a model Relates molecular/particle motion and spacing to state/phase changes of substances Relates molecular/particle motion and spacing to changes in temperature/heat/thermal energy of a substance, using a model

Students: RIT 221-230:

- Applies a particle model of matter to explain the expansion and compression of objects and substances
- Relates molecular/particle motion and spacing to changes in temperature/heat/thermal energy of a substance, using a model