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# CW Middle School

## Science 6 C

### 1. Building Blocks of Matter (50.00%)

#### Learning Targets

1.1 I can construct a model of an atom demonstrating the proper location and correct number of protons, neutrons, and electrons using the periodic table.

Learning Target	Descriptor	Definition
4	Proficient	I can construct a model of an atom demonstrating the proper location and correct number of protons, neutrons, and electrons using the periodic table.
3	Developing	I can diagram a model of an atom demonstrating the proper location and correct number of protons, neutrons, and electrons using the periodic table.
2	Basic	I can describe the proper location and the correct number of protons, neutrons, and electrons using the periodic table.
1	Minimal	I can identify the proper location and the correct number of protons, neutrons, and electrons using the periodic table.
0	No Evidence	No evidence shown.


1.2 I can justify and provide evidence for the validity of the electron model.

Learning Target	Descriptor	Definition
4	Proficient	I can justify and provide evidence for the validity of the electron model.
3	Developing	I can explain the electron cloud model of an atom.
2	Basic	I can differentiate between the location and charges of each part of an atom.
1	Minimal	I can identify parts of the atom.
0	No Evidence	No evidence shown.

1.3 I can justify whether or a substance is an element, compound, or mixture by providing evidence.

Learning Target	Descriptor	Definition
4	Proficient	I can justify whether or a substance is an element, compound, or mixture by providing evidence.
3	Developing	I can compare and contrast compounds and mixtures.
2	Basic	I can describe characteristics of elements, compounds, and mixtures.
1	Minimal	I can identify elements, compounds, and mixtures.
0	No Evidence	No evidence shown.

1.4 I can provide a written explanation of the differences between two elements on the periodic table using diagrams and details.


  
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Learning Target	Descriptor	Definition
4	Proficient	I can provide a written explanation of the differences between two elements on the periodic table using diagrams and details.
3	Developing	I can compare and contrast two elements on the periodic table using a Venn diagram.
2	Basic	I can explain basic information about elements using the periodic table (chemical name, chemical symbol, state of matter, atomic number, atomic weight).
1	Minimal	I can use the periodic table to identify elements.
0	No Evidence	No evidence shown.

## 2. Changing Energy Forms (50.00%)

### Learning Targets

#### 2.1 I can trace the path of energy as it transforms from one type to another.


Learning Target	Descriptor	Definition
4	Proficient	I can trace the path of energy as it transforms from one type to another.
3	Developing	I can restate the law of conservation of energy in my own words.
2	Basic	I can define and sort different forms of energy into groups.
1	Minimal	I can define energy.
0	No Evidence	No evidence shown.

#### 2.2 I can assess the difference between thermal energy and temperature.

Learning Target	Descriptor	Definition
4	Proficient	I can assess the difference between thermal energy and temperature.
3	Developing	I can evaluate the difference between thermal energy and temperature.
2	Basic	I can describe one characteristic of heat.
1	Minimal	I can define thermal energy, heat, and temperature.
0	No Evidence	No evidence shown.

#### 2.3 I can identify the misconceptions associated with various scenarios involving conduction, convection, or radiation.

Learning Target	Descriptor	Definition
4	Proficient	I can identify the misconceptions associated with various scenarios involving conduction, convection, or radiation.
3	Developing	I can identify whether given scenarios are related to conduction, convection, or radiation.


  
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## Science 6 C

Learning Target	Descriptor	Definition
2	Basic	I can classify examples of conduction, convection, and radiation.
1	Minimal	I can define conduction, convection, and radiation.
0	No Evidence	No evidence shown.

**2.4 I can construct and present arguments with at least two observations to support the claim that when kinetic energy of an object changes, energy is transferred to and/or from the object.**

Learning Target	Descriptor	Definition
4	Proficient	I can construct and present arguments with at least two observations to support the claim that when kinetic energy of an object changes, energy is transferred to and/or from the object.
3	Developing	I can construct and present arguments with at least one observation to support the claim that when kinetic energy of an object changes, energy is transferred to and or from the object.
2	Basic	I can give examples of how kinetic energy can be transferred.
1	Minimal	I can define temperature as it relates to kinetic energy.
0	No Evidence	No evidence shown.

**2.5 I can clearly relate the motion and placement of particles to temperature in the cycle of convection.**

Learning Target	Descriptor	Definition
4	Proficient	I can clearly relate the motion and placement of particles to temperature in the cycle of convection.
3	Developing	I can relate the motion or placement of particles to temperature in the cycle of convection.
2	Basic	I can differentiate convection from conduction.
1	Minimal	I can define convection.
0	No Evidence	No evidence shown.

**Submitted on 2/3/2022 by Melanie Becker**