Course: 7th grade Life Science	
Standard(s):	SC.7.N.1.1 (Science Fair), SC.7.N.1.2 (Repetition vs Replication), SC.7.N.1.3 (Experiment vs Investigation), SC.7.N.1.4 (Variables), SC.7.N.1.5 (Methods), SC.7.N.1.6 (Empirical Evidence), SC.7.N.1.7 (Debate), SC.7.N.2.1 (Knowledge has changed), SC.7.N.3.1 (Theories vs Laws), SC.7.N.3.2 (Models)
Topic (Keywords): Nature of Science (Scientific Processes)	

4.0	**In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard** **The student will:** ☐ Generate their own hypothesis to investigate, plan and carryout an experiment to potentially support the hypothesis ☐ Research the historical development of a scientific theory and discuss the changes and debates that were involved **No major errors or omissions regarding the score 4.0 content**
3.5	In addition to score 3.0 performance, in-depth inferences and applications with partial success
3.0 ⭐	**The student will**: understand and apply appropriate methods of scientific investigation, experimentation, and research ☐ Design and carryout an investigation (N.1.1) ☐ Differentiate between replication and repetition (N.1.2) ☐ Identify test (independent) and outcome (dependent) variables in an experiment (N.1.3, N.1.4) ☐ Describe methods of science that are used in different fields of science (N.1.5) ☐ Explain and use empirical evidence (N.1.6) ☐ Identify an instance when scientific knowledge was changed (N.1.7, N.2.1) ☐ Explain the difference between theories and laws and give examples of theories (N.3.1) ☐ Identify the benefits and limitations of models (N.3.2) **No major errors or omissions regarding the score 3.0 content (simple or complex)**
2.5	No major errors or omissions regarding 2.0 content and partial knowledge of the 3.0 content
2.0	**The student recognizes and describes specific terminology such as:** ☐ Experiment ☐ Theory ☐ Variable (test/independent, outcome/dependent, constant) ☐ Investigation ☐ Law ☐ Repetition ☐ Empirical evidence ☐ Model ☐ Replication ☐ Control group **The student will:** ☐ List the methods of scientific experimentation ☐ Conduct an experiment by following prescribed procedures ☐ Provide evidence for analysis **No major errors or omissions regarding the simpler details and processes but major errors or omissions regarding the more complex ideas and processes**
1.5	Partial knowledge of the score 2.0 content, but major errors or omissions regarding score 3.0 content
1.0	With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.
0.5	With help, a partial understanding of the score 2.0 content, but not the score 3.0 content
0.0	Even with help, no understanding or skill demonstrated

Student Progress Chart
Keeping Track of My Learning

Name: _____   **Period:** _____

Unit: _____

Learning Goal: _____

_____
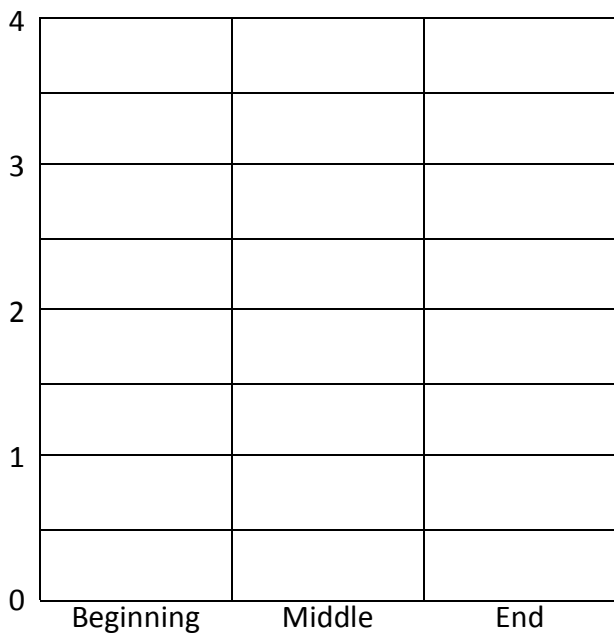
_____

_____

My score at the beginning is _____.   My goal is to be at score _____.

Specific things I am going to do to improve: _____

_____

_____

_____

My Score at the Beginning, Middle, and End of the Unit	**Use this box at the end of the unit only!**
	I believe I will earn a grade of _____ on my unit test.
	I actually earned a grade of _____ on my unit test.
	Possible reasons for achieving or not achieving my grade on the unit test are:

Graph (vertical axis 0–4), bars for: Beginning, Middle, End

_____   _____   _____

Using the scale provided in class, fill in the bar graph based on your score at the beginning, middle, and end of the unit. Write the date on the lines below the graph.

Possible reasons for achieving or not achieving my grade on the unit test are:

_____

_____

_____

_____

_____

_____

_____

_____

_____