STAAR Spring 2024 Grade 5 Science Answer Key

Item Position	Item Type	TEKS Assessed	Maximum Number of Points	Correct Answer(s)	Reporting Category	Readiness and Supporting
1	Multiple Choice	5.8(D)	1	A	3	Supporting
2	Multiple Choice	5.7(B)	1	D	3	Readiness
3	Multi Part	5.5(A)	2	D, A	1	Readiness
4	Multiple Choice	5.9(C)	1	A	4	Supporting
5	Hot Spot	5.6(B)	1	See Appendix 1.1	2	Readiness
6	Multiple Choice	5.9(D)	1	C	4	Supporting
7	Multiple Choice	5.9(B)	1	D	4	Readiness
8	Multiple Choice	5.8(C)	1	C	3	Readiness
9	Multiple Choice	5.10(A)	1	A	4	Readiness
10	Multiple Choice	5.6(C)	1	B	2	Readiness
11	Multiselect	5.6(A)	2	C, D See Appendix 1.2	2	Readiness
12	Multiple Choice	5.10(B)	1	A	4	Readiness
13	Drag and Drop	4.8(B)	2	condensation, gas, liquid See Appendix 1.3	3	Supporting

14	Multiple Choice	5.9(B)	1	D	4	Readiness
15	Short Constructed Response	5.7(A)	2	See Appendix 1.4	3	Readiness
16	Multiple Choice	3.10(B)	1	D	4	Supporting
17	Multiple Choice	5.5(B)	1	A	1	Supporting
18	Multiple Choice	5.6(B)	1	B	2	Readiness
19	Multiple Choice	5.6(D)	1	D	2	Supporting
20	Multiple Choice	5.9(A)	1	C	4	Readiness
21	Multiple Choice	5.8(A)	1	D	3	Supporting
22	Drag and Drop	5.7(A)	2	Clockwise from the top: Weathering, Erosion, Deposition, Compaction, Cementation See Appendix 1.5	3	Readiness
23	Multi Part	5.10(A)	2	D, C	4	Readiness
24	Multiple Choice	5.6(C)	1	B	2	Readiness
25	Multiple Choice	5.5(A)	1	D	1	Readiness
26	Multiple Choice	3.6(B)	1	A	2	Supporting
27	Multiple Choice	5.7(B)	1	B	3	Readiness

28	Multiple Choice	3.9(A)	1	C	4	Supporting
29	Multiple Choice	5.6(A)	1	D	2	Readiness
30	Multiselect	4.7(A)	2	A, C See Appendix 1.6	3	Supporting
31	Multiple Choice	5.5(C)	1	D	1	Supporting
32	Multiple Choice	5.10(B)	1	C	4	Readiness

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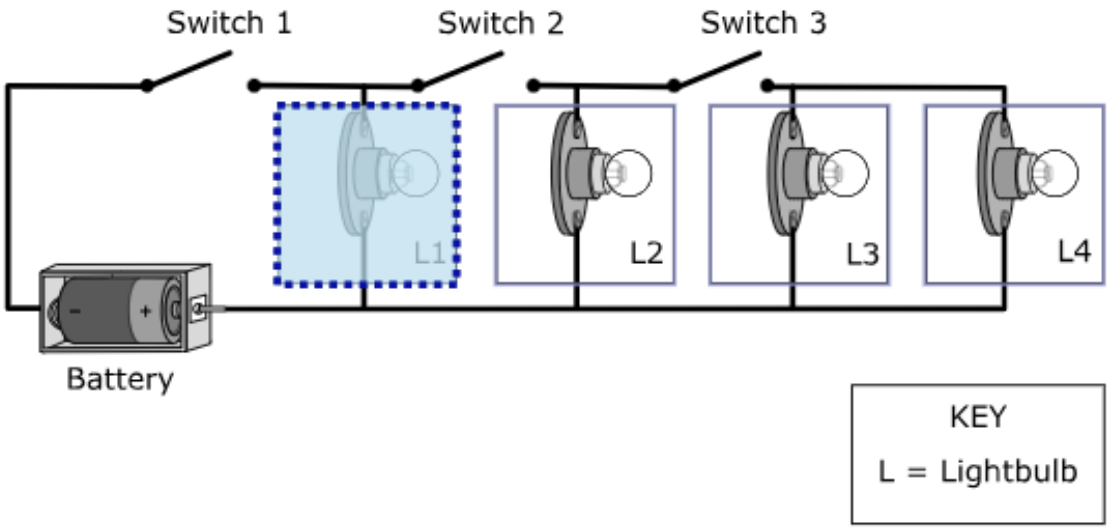
Appendix

1.1

A student builds the circuit shown. The student closes Switch 1 and Switch 3.

Which lightbulb will glow?

Select **ONE** correct answer.



1.2

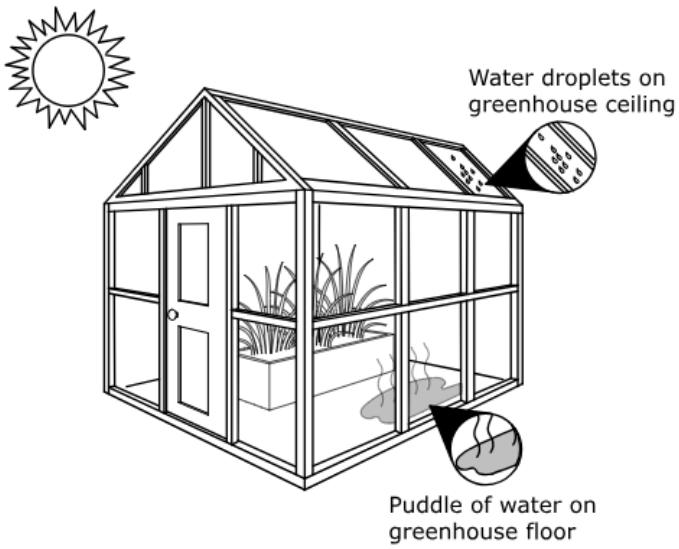
A student sees and hears a battery-operated toy car moving across the room. What types of energy does the student use to see and hear the toy car?

Select **TWO** correct answers.

- [ ] Electrical
- [ ] Mechanical
- [x] Sound
- [x] Light
- [ ] Thermal

1.3

A diagram of a greenhouse is shown.



Complete the sentence to explain the water in the greenhouse.

Move the correct answer to each box. Not all answers will be used.

evaporation | condensation | solid | liquid | gas

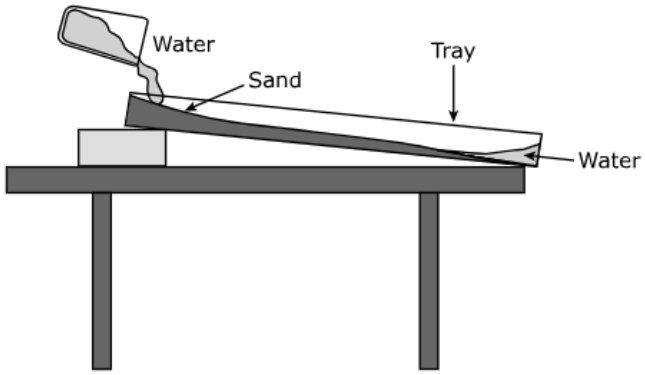
The process of [condensation] is occurring on the greenhouse ceiling. This is occurs when a [gas] changes to a [liquid].

1.4

A group of students created a model to demonstrate some of the processes involved in the formation of sedimentary rock. The students used this procedure to create the model:

1. Put some sand into a rectangular tray and create a hill at one end with the sand.
2. Raise the end of the tray with the hill of sand by placing a block of wood under it.
3. Create a channel in the sand from the top of the sand hill to the bottom of the sand hill.
4. Pour water into the tray so that it flows through the channel.
5. Observe how the flowing water affects the sand.

The model is shown in the diagram.



Which **TWO** processes of sedimentary rock formation are being modeled **AND** how are they being modeled?

Read the procedure and look at the diagram carefully. Then enter your answer and explanation in the box provided.

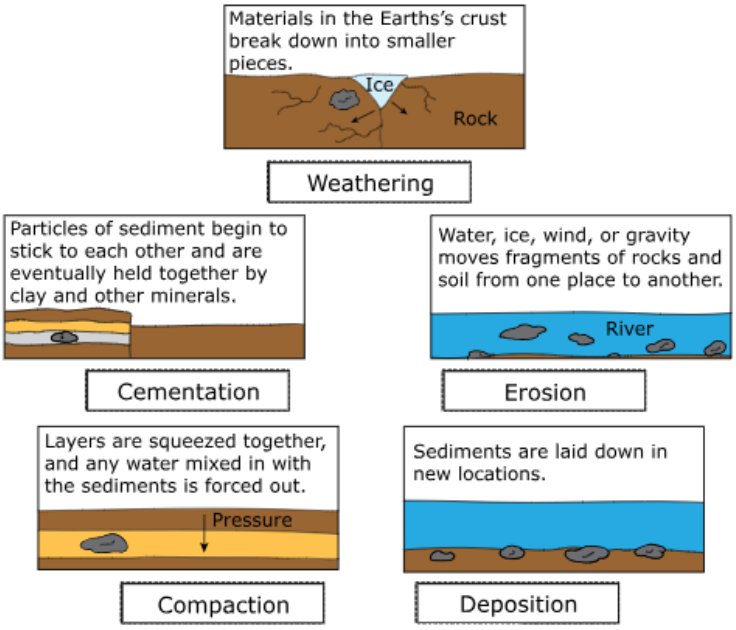
The student must identify that the students are modeling erosion and deposition of sediment AND these processes are being shown by having water erode sand as it travels downhill and deposits the sand at the bottom.

1.5

Sedimentary rock is formed through several different processes. Match each process with its description.

Move the correct answer to each box.

Compaction | Erosion | Deposition | Weathering | Cementation



1.6

The picture shows a plant growing in a mixture of sand, silt, and humus.

Which statements explain why this combination of soils is good for plant growth?

Select **TWO** correct answers.

- [x] Sand helps keep the soil in the pot loose.
- [ ] Silt helps increase the size of sand particles.
- [x] Humus provides the plant with useful nutrients.
- [ ] Humus keeps water in the pot from evaporating.
- [ ] Silt keeps roots from penetrating the surface of the soil.