Unit 4 Quiz

Due No due date **Points** 20 **Questions** 20 **Time limit** None **Allowed attempts** 2

Instructions



Before you begin working on this assignment, please read this information:

- Unit quizzes do count toward your course grade.
- Double-check your work before submitting the assignment.
- You can save your work and continue later, if you need to.
- The assignment is **open book**—you can refer back to the lesson material to find answers.

Attempt history

	Attempt	Time	Score	
KEPT	Attempt 2	6 minutes	15 out of 20	
LATEST	Attempt 2	6 minutes	15 out of 20	
	Attempt 1	91 minutes	14 out of 20	

(!) Correct answers are hidden.

Score for this attempt: **15** out of 20 Submitted 3 Apr 2019 at 13:02 This attempt took 6 minutes.

Question 1	1 / 1 pts

Find the density of a rock that has a mass of 40 g and a volume of 20.5 cm³. 820 g/ cm³ 2 g/ cm³ 0.51 b/ cm³ 1.95 g/cm³ 40 g/ cm³

1 / 1 pts

Question 3	1 / 1 pts
Convert 280 K into Fahrenheit.	

45°F		
○ 963°F		
○ -177.2°F		
○ 410.56°F		
○ 7°F		

Pind the volume of a sphere that has a radius of 2 cm. 8 cm³ 61.2 cm³ 33.5 cm³ 25 cm³ 12.6 cm³

Question 5	1 / 1 pts
Find the volume of a cylinder with a radius of 10 cm an 10 cm.	d a height of
○ 1000 cm³	
© 3140 cm³	

31	.4 cm³			
0 10	0 cm³			
O 31	4 cm³			

Question 6	1 / 1 pts
Find the volume of a box that measures 4 cm by 16 cm l	oy 20 cm.
○ 640 cm³	
© 1280 cm³	
○ 40 cm³	
○ 320 cm³	
○ 3200 cm³	

Question 7	1 / 1 pts
Which one of the main states of matter is characterized the most loosely held particles?	as having
○ liquid	
gas	
○ plasma	
Solid	

Question 8	1 / 1 pts
Which one of the main states of matter always maintains and volume?	s its shape
solid	
○ liquid	
○ gas	
○ water	

Incorrect

What is the process by which a gas becomes a solid without becoming a liquid first? deposition vaporization sublimation condensation evaporation

The question asked about a gas becoming a solid. You may want to revisit the material from lesson 2.

Question 10	1 / 1 pts
A pot of boiling water on the stove is slowly releasing stores process is this an example of?	team. Which
vaporization	
evaporation	
Sublimation	
deposition	
condensation	

Question 11	1 / 1 pts
What is the process by which a gas becomes a liquid?	
condensation	
vaporization	
deposition	
evaporation	

sublimation

Question 12	1 / 1 pts
Sensible heat involves a change in which aspect of a subs	tance?
its condensation	
its temperature	
its vaporization	
its state	

Incorrect

Question 13 0 / 1 pts

How much heat must be transferred for 5 g of ice at 0°C to become liquid water? Is it absorbed or released?

80 calories released

It appears that you found the amount of heat that would need to be transferred to 1 gram of ice, instead of to 5 grams of ice. Also, this heat must be absorbed, not released. Please review table 4.2 from lesson 3. You can also get more help with change of state questions in the unit 4 folder in the virtual practice lab. Check out problems 7 and 8.

- 80 calories absorbed
- 400 calories released

400 calories absorbed

Incorrect

Question 14 0 / 1 pts

How much heat must be transferred for 10 g of liquid water at 0°C to become ice? Is it absorbed or released?

800 calories absorbed

You did find the correct amount of heat that must be transferred, but this heat must be released, not absorbed. Please review table 4.2 from lesson 3. You can also get more help with change of state questions in the unit 4 folder in the virtual practice lab. Check out problems 7 and 8.

- 800 calories released
- 80 calories released
- 80 calories absorbed

Incorrect

Question 15 0 / 1 pts

Is heat absorbed or released during freezing?

- absorbed
- released

Heat must be released from a liquid for freezing to occur. Please revisit the material from lesson 3.

Incorrect

Is heat absorbed or released during vaporization? absorbed released Heat must be absorbed by a liquid for vaporization to occur. Please revisit the material from lesson 3.

A piece of copper is measured to be at 10°C and 115 grams in mass. If 1300 calories were added to it, what was the final temperature of the copper? 386.8°C 125.6°C 21.3°C

135.6°C

Question 18	1 / 1 pts
The temperature of 5 liters of argon gas is 300 K. If we ch temperature to 350 K, what will the resulting volume be?	ange the
○ 6.11 liters	
2.94 liters	
○ 4.29 liters	
5.83 liters	
3.77 liters	

Question 19	1 / 1 pts
Air in a certain container has a pressure of 0.00035 Pa at a temperature of 297 K. If we change the temperature to 317 will be the pressure?	
○ 0.000328 Pa	
0.000374 Pa	
0.000302 Pa	
0.000334 Pa	
○ 0.000386 Pa	

Question 20	1 / 1 pts
The pressure of 6 liters of nitrogen gas is 0.00002 Pa. the pressure to 0.00003 Pa, what will the resulting vo	_
0.111 liters	
0.25 liters	
9 liters	
4 liters	
○ 6 liters	

Quiz score: 15 out of 20