Happy Path - Unit 2 Exploration: Do You Really Want to Drink That? The Elements of Water

#	Screen Name	For this	Do this	Screenshot	Learning Objectives
1	Title		Click Begin		
4	Welcome	Text input	Type a name		
			Click Next		
7	Prior Knowledge Check		Wait at least 10 seconds		
			Click Next		
10	Routine	Text input	I know it's important to stay hydrated. I try to drink at least a gallon of water per day.		
			Click Next		
13	Source	Text input	I like the taste of bottled water, but it can get expensive. That's why I mostly drink filtered tap water.		
			Click Next		
18	Whats in Water		Click Next		
22	Question	Multiple choice	Select Bottled Drinking Water		
			Click Next		
25	Hypothesis 1	Multiple choice	Select Kyan's sounds about right.		
			Click Next		
28	Hypothesis 2	Dropdown	Select more		

			Click Next		
29	Hypothesis 3	Text input	I think water gets filtered before it is bottled. As part of that process, a bunch of elements get removed.		
			Click Next		
32	Start	Multiple choice	Select Tap Water		
			Click Next		
			Click Next		
35	Mass Spec		Click Next		
39	MS Overview	Fill in the blanks	The x-axis reports mass in amu, which stands for atomic mass units. Meanwhile, the y-axis reports the signal in cps, which stands for counts per second.	The x-axis reports mass in amu, which stands for atomic mass units Meanwhile, the y-axis reports the signal in cps, which stands for counts per second .	
			Click Check		
			Click Next		
40	Sample 1 Test	Mass Spec simulator	Drag blue water sample vial at left and drop onto sample rack in clear case to the right.		
			Click Run Sample		
			Click Next		
43	Sample Elements	Text input - 1st most common	Н		Classify matter as element, compound, or mixture.
		Text input - 2nd most common	0		
			Click Check		
			Click Next		
46	H and O		Click Next		
49	MS Scan	Multiple choice	Select No		

			Click Check		
			Click Next		
56	Log	Multi select	Select Y-axis		
			Select Signal (cps)		
			Click Check		
			Click Next		
59	Linear v Log	Text input - Mass 23 on linear	484620		
		Text input - Mass 23 on log chart	484620		
			Click Check		
			Click Next		
61	Which Elements	Multiple choice	Select Seven, please!		
			Click Next		
			Click Next		
62	The Seven Elements	Find on Periodic Table	Select Ag, B, Si, K, Mg, Pb, Sb	H	
			Click Check		
			Click Next		
	-	-	-		1

68	How to Find	Find on Periodic Table	Select Rb	N N N N N N N N N N	Apply the concepts of isotopes and their percent abundance to make calculations associated with atomic mass.
			Click Next		
69	Updated Periodic Table		Click Next		
64	Chart X-axis	Multiple choice	Select The mass of the atom		
			Click Check		
			Click Next		
70	Find Isotopes	Multi select	Select 85 Rb and 87 Rb	□ ³⁷ Rb ✓ ⁸⁵ Rb □ ⁸⁶ Rb ✓ ⁸⁷ Rb	Interpret chemical symbols for isotopes and ions.
			Click Check		
			Click Next		
71	Find the Mass	Slider	Move to 85		Apply the concepts of isotopes and their percent abundance to make calculations associated with atomic mass.
			Click Check		
			Click Next		
72	Check Mass Spectrum	Multiple choice	Select Yes		
			Click Check		
			Click Next		

73	Rb Summary	Fill in the blanks	Look at the element's isotopes and see if the chart has a bar matching their mass numbers on the x-axis.	Look at the element's isotopes and see if the chart has a bar matching their mass numbers on the x-axis .	Interpret chemical symbols for isotopes and ions.
			Click Check		
			Click Next		
67	You've Got This		Click Next		
75	Tap Identify Elements	Multi select	Select Pb, K, Si, Mg	 Silver (Ag) ✓ Lead (Pb) Boron (B) ✓ Potassium (K) ✓ Silicon (Si) Antimony (Sb) ✓ Magnesium (Mg) 	Interpret chemical symbols for isotopes and ions.
			Click Check		
			Click Next		
86	Other Sample		Click Next		
			Click Next		
87	Sample 2 Test	Mass Spec simulator	Drag blue water sample vial at left and drop onto sample rack in clear case to the right.		
			Click Start		
			Click Next		

77	Bottled Drinking Water Identify Elements	Multi select	Select Pb, Si	☐ Silver (Ag) ☑ Lead (Pb) ☑ Silicon (Si) ☐ Potassium (K) ☐ Magnesium (Mg) ☐ Boron (B) ☐ Antimony (Sb)	Interpret chemical symbols for isotopes and ions.
			Click Check		
			Click Next		
90	Compare Choice		Click Next		
91	Tap v Bottled Drinking	Drag and drop - Only in Tap Water	Mg, K	Coly in Tay Make In Bush No. 1	
		Drag and drop - In Both	Si, Pb		
			Click Next		
			Click Next		
98	Revisit Hypothesis	Multiple choice	Select Yes		
101	Most Elements 1	Multiple choice	Select Creek water		
			Click Next		
			Click Next		
104	Most Elements 2	Text input	Creek water is the most natural and least filtered, so it has the most elements.		

			Click Next	
			Click Next	
105	Most Elements 2.1		Click Next	
108	Most Elements 3	Multiple choice	Select No	
			I've heard that drinking untreated water can be unsafe. It might contain animal waste and toxins from the environment.	
			Click Check	
			Click Next	
109	Most Elements 3.1		Click Next	
112	Fewest Elements 1	Multiple choice	Select Distilled water	
			Click Check	
			Click Next	
115	Fewest Elements 2	Text input	Distilled water goes through extensive processing, which removes minerals and other elements.	
			Click Next	
			Click Next	
116	Fewest Elements 2.1		Click Next	
119	Fewest Elements 3	Multiple choice	Select Yes	
		Text input	Distilled water is too purified. It doesn't contain essential elements that the human body needs for survival.	
			Click Check	
			Click Next	
120	Fewest Elements 3.1		Click Next	

123	Which are Safe? 1	Multi select	Select Bottled drinking water	
			Select Tap water	
			Select Bottled spring water	
			Click Check	
			Click Next	
124	Which are Safe? 1.1		Click Next	
128	Which are Safe? 2	Multiple choice	Select Yes	
		Text input	I am concerned but I also think it depends on how much Pb is in the water. Small amounts are probably safe.	
			Click Next	
			Click Next	
131	Now What	Text input	Yes. I am going to look at reports about the water company that provides service to my house. I want to make sure they are doing adequate testing.	
			Click Next	
134	Wrap Up	Button	Click Finish Exploration	-