

Knowledge Question	n=	% Correct Pre	% Correct Post	Difference	Percent Change	p-value
K1 - Where do you get your DNA from? (Answer: Parents)	6496	72.3%	87.2%	14.8%	20.5%	<0.001
K2.0 - How many chambers does a FISH heart have? (2010-2013) (Answer: Two)	5121	39.7%	76.5%	36.8%	92.6%	<0.001
K2.1 - How many chambers does a HUMAN heart have? (2013-present) (Answer: Four)	1375	26.0%	90.4%	64.4%	247.2%	<0.001
K3 - What body part is NOT found in a fish? (Answer: Lungs)	6496	41.5%	71.6%	30.1%	72.7%	<0.001
K4 - The zebrafish embryo is protected by the: (Answer: Chorion)	6496	21.2%	65.6%	44.4%	210.0%	<0.001
<i>K5.0 - Which of these characteristics does a temperate environment have, making it unsuitable for a zebrafish to survive? (2010-2011) (Answer: The weather is warm in the summer and cold in the winter)</i>	1973	38.2%	34.4%	-3.9%	-10.1%	<i>n.s.</i>
<i>K5.1 - Which of these statements about temperate environments is true? (2011-2014) (Answer: A temperate environment is warm in the summer and cold in the winter)</i>	3839	76.5%	67.0%	-9.4%	-12.3%	<0.001
K5.2 - Which of these statements about tropical environments is true? (2014-2015) (Answer: A tropical environment is hot all year)	683	24.0%	44.1%	20.1%	83.5%	<0.001
K6.0 - If you are writing a hypothesis, you are: (2010-2011) (Answer: Making a statement that predicts an answer to your question)	1973	61.1%	66.3%	5.2%	8.5%	<0.001
K6.1 - If you are writing a hypothesis, you are: (2011-2015) (Answer: Writing a guess for the question you are trying to figure out)	4523	57.9%	65.0%	7.1%	12.2%	<0.001
K7 - Zebrafish can be used to research human diseases and medicines. (Answer: True)	6496	50.7%	70.6%	19.9%	39.2%	<0.001
K8.0 - Zebrafish and human DNA have many of the same genes. (2010-2014) (Answer: True)	5813	40.8%	69.8%	29.0%	73.6%	<0.001
K8.1 - Zebrafish and humans are genetically similar. (2014-2015) (Answer: True)	683	38.4%	81.3%	42.9%	111.8%	<0.001