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711	Scientist: HR:
unit 1 REVIEW - The Scientific Method	
1. Understands the steps of the Scientific Method	
Write the Scientific Method Steps in order, below:	
1. Question - specific idea that can be to	
	, ask advice, think about background knowledge
 Yrediction – an 'if, then statement' with Investigation Plan – create a materials 	iscientific reasoning list and procedure (step-by-step)
5. <u>Observation</u> – perform the experiment,	
1 / 2 - 1 1	n data, find the mean, graph data
- / / / /	ion with evidence and reasoning
2. Generates scientific questions based on observations. Which of the following is the best example of a good scientific a. How fast does a Ford truck travel to	labs, and research equestion?
b. What tastes better, pop or lemonad	le?
c. Does the thickness of the paper in a	a paper airplane affect the speed it travels?
d. Which plant is more beautiful, daisie	es or roses?
Develop a strong scientific question you think scientists could t	test in class.

3. Analyze information from a data table to answer scientific questions (step #6)

 $\ensuremath{\text{\%}}$ of questions answered correctly in Jeopardy practice

Student	Round 1	Round 2	Round 3	Average
Bart	54%	66%	73%	64%
Homer	69%	98%	64%	77%
Marge	88%	92%	85%	88%
Maggie	93%	96%	95%	95%

Mrs. Roy chose Maggie to compete in the Jeopardy challenge.
Did she make the best choice? (YES) or No (circle one)
Why or why not?
Maggie has the highest average, overall.
2) She was the most consistent in her 3 rounds of correctly answering questions. (highest 705)
of correctly answering questions. (highest 103)
Mr. Thelen selects Homer because he has the highest score of all the rounds.
Did he make the best choice? YES or No (circle one)
Why or why not? (1) Homer didn't do as well in round 1 & 3.
2) His average % in not as high as others.
4. Identifies the need for evidence in making scientific decisions (explanations) Step #7
CONCLUSIONS
Why are scientific explanations so important? It sums up what you've learned
"Explanations" answer your experiment question, the
focus of your entire investigation.
Name 3 components that are required within your scientific explanation. (or conclusion)
Claim - a statement that
ents answers your question
enior 2. Evidence - data (information) that
enjoy 2. <u>Evidence - data</u> (information) that supports your claim
ranch 3. Reasoning—The argument used to say why the evidence answers the question
rats say why the evidence
answers the que