PHIL110 - SCIENCE AND OBSERVATION

May 10, 2016

1 Assignment Description

Here are step-by-step instructions for the Science and Observation Assignment.

- 1. You should already be signed up for LATEX and have completed the LATEX assignment.
- 2. In one paragraph, articulate the view the discussed in class (and/or in today's reading).
- 3. In an enumerated (ordered) list, state three problems with this view. Use any examples you can think of to illustrate these three problems.
- 4. In a few sentences, briefly state how you think observation relates to science.
- 5. Upload both the PDF and the source (.zip) file to the corresponding DropBox in ANGEL.

2 Assistance

If you run into trouble, here are some tutorials.

- Youtube video on how to create your first document using ShareLaTeX: https://www.youtube.com/watch?v=Qg2WtaSy-zQ
- 2. Tutorial on how to create various lists (including ORDERED, ENUMERATED) using ShareLa-TeX: https://www.sharelatex.com/learn/Lists
- 3. Tutorial on how to insert figures (including pictures) using ShareLaTeX: https://www.sharelatex.com/learn/Inserting_Images
- 4. Tutorial on how to save your work as a PDF or as SOURCE (.zip): https://www.sharelatex.com/learn/Exporting_your_work_from_ShareLaTeX

Assignment № 1 Page 1 / 10

PHIL110 - SCIENCE AND INDUCTION

May 10, 2016

3 Due Date

This assignment is due Monday, 2/1 before 11:59PM EST.

4 Assignment Description

Here are step-by-step instructions for the assignment.

- 1. You should already be signed up for LATEX and have completed the LATEX assignment.
- 2. In one paragraph, explain what induction is and the inductivist method of science.
- 3. In an enumerated (ordered) list, describe **three** problems with the inductivist picture of the method of science.
- 4. Finally, in one paragraph, explain whether you think science is inductive. Give reasons for your view.
- 5. Upload both the PDF and the source (.zip) file to the corresponding DropBox in ANGEL.

5 Assistance

If you run into trouble, here are some tutorials.

- Youtube video on how to create your first document using ShareLaTeX: https://www.youtube.com/watch?v=Qg2WtaSy-zQ
- 2. Tutorial on how to create various lists (including ORDERED, ENUMERATED) using ShareLa-TeX: https://www.sharelatex.com/learn/Lists
- 3. Tutorial on how to insert figures (including pictures) using ShareLaTeX: https://www.sharelatex.com/learn/Inserting_Images
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Assignment № 2 Page 2 / 10

PHIL110 - SCIENCE AND FALSIFICATIONISM

May 10, 2016

6 Due Date

This assignment is due Monday, 2/15 before 11:59PM EST.

7 Assignment Description

Here are step-by-step instructions for the assignment.

- 1. You should already be signed up for LATEX and have completed the LATEX assignment.
- 2. In one paragraph, explain what sophisticated falsificationism is
- 3. In an enumerated (ordered) list, describe **two** problems with the falsificationist picture of the method of science.
- 4. Finally, in one paragraph, explain whether you think science works how the falsificationist says it does. Give explicit reasons for your view.
- 5. Upload both the PDF and the source (.zip) file to the corresponding DropBox in ANGEL.

8 Assistance

If you run into trouble, here are some tutorials.

- Youtube video on how to create your first document using ShareLaTeX: https://www.youtube.com/watch?v=Qg2WtaSy-zQ
- 2. Tutorial on how to create various lists (including ORDERED, ENUMERATED) using ShareLa-TeX: https://www.sharelatex.com/learn/Lists
- 3. Tutorial on how to insert figures (including pictures) using ShareLaTeX: https://www.sharelatex.com/learn/Inserting_Images
- 4. Tutorial on how to save your work as a PDF or as SOURCE (.zip): https://www.sharelatex.com/learn/Exporting_your_work_from_ShareLaTeX

Assignment № 3 Page 3 / 10

PHIL110 - SCIENCE AND EXPLANATION

May 10, 2016

9 Due Date

This assignment is due Monday, 2/15 before 11:59PM EST.

10 Assignment Description

Here are step-by-step instructions for the assignment.

- 1. You should already be signed up for LATEX and have completed the LATEX assignment.
- 2. In one paragraph, explain what the covering law model of explanation is.
- 3. In an enumerated (ordered) list, describe **two** problems with the covering law model of explanation.
- 4. Finally, in one paragraph, explain what you think the strengths and weaknesses of the covering law model of explanation. Give reasons for your view.
- 5. Upload both the PDF and the source (.zip) file to the corresponding DropBox in ANGEL.

11 Assistance

If you run into trouble, here are some tutorials.

- 1. Youtube video on how to create your first document using ShareLaTeX: https://www.youtube.com/watch?v=Qg2WtaSy-zQ
- 2. Tutorial on how to create various lists (including ORDERED, ENUMERATED) using ShareLa-TeX: https://www.sharelatex.com/learn/Lists
- 3. Tutorial on how to insert figures (including pictures) using ShareLaTeX: https://www.sharelatex.com/learn/Inserting_Images
- 4. Tutorial on how to save your work as a PDF or as SOURCE (.zip): https://www.sharelatex.com/learn/Exporting_your_work_from_ShareLaTeX

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PHIL110 - Science and Theory-Change

May 10, 2016

12 Due Date

This assignment is due Wednesday, 3/14 before 11:59PM EST.

13 Assignment Description

Here are step-by-step instructions for the assignment.

- 1. You should already be signed up for LATEX and have completed the LATEX assignment.
- 2. In one paragraph, explain one of the following:
 - Kuhn's account of science
 - · Lakatos's account of science
 - Feyerabend's account of science
- 3. In the next paragraph, explain one problem with the account of science that you described in the first paragraph.
- 4. Finally, in last paragraph, explain what you take to be both the strengths and weaknesses of the account of science you described in the first paragraph (be sure to give reasons to support your view).
- 5. for one point of extra credit, use a diagram to illustrate any of your ideas from paragraph 1, 2, or 3.
- 6. Upload both the PDF and the source (.zip) file to the corresponding DropBox in ANGEL.

14 Assistance

If you run into trouble, here are some tutorials.

- Youtube video on how to create your first document using ShareLaTeX: https://www.youtube.com/watch?v=Qg2WtaSy-zQ
- 2. Tutorial on how to create various lists (including ORDERED, ENUMERATED) using ShareLa-TeX: https://www.sharelatex.com/learn/Lists
- 3. Tutorial on how to insert figures (including pictures) using ShareLaTeX: https://www.sharelatex.com/learn/Inserting_Images
- 4. Tutorial on how to save your work as a PDF or as SOURCE (.zip): https://www.sharelatex.com/learn/Exporting_your_work_from_ShareLaTeX

Assignment № 5 Page 5 / 10

PHIL110 - SCIENCE AND PSEUDOSCIENCE: THE PARANORMAL

May 10, 2016

15 Due Date

This assignment is due Friday, 3/25 before 11:59PM EST.

16 Assignment Description

Here are step-by-step instructions for the assignment.

- 1. You should already be signed up for LATEX and have completed the LATEX assignment.
- 2. Watch *Paranormal Home Inspectors, Episode 2, Mattina*. You can find this on Hulu or Youtube (https://www.youtube.com/watch?v=I3mmztLiM98).
- 3. In a single paragraph, explain the basic premise of the show.
- 4. In the next paragraph, explain how each of the three individuals explain the "paranomal" phenomena
- 5. Finally, in an itemized list, answer the following questions:
 - What are the limitations of each of the three explanations (if any)?
 - Can any of the individuals who investigate the phenomena be said to be impartial?
 - Which of the three explanations is the **most** plausible (and why); which of the three explanations is the least plausible (and why)?
- 6. Upload both the PDF and the source (.zip) file to the corresponding DropBox in ANGEL.

17 Assistance

If you run into trouble, here are some tutorials.

- Youtube video on how to create your first document using ShareLaTeX: https://www.youtube.com/watch?v=Qg2WtaSy-zQ
- 2. Tutorial on how to create various lists (including ORDERED, ENUMERATED) using ShareLa-TeX: https://www.sharelatex.com/learn/Lists
- 3. Tutorial on how to insert figures (including pictures) using ShareLaTeX: https://www.sharelatex.com/learn/Inserting_Images
- 4. Tutorial on how to save your work as a PDF or as SOURCE (.zip): https://www.sharelatex.com/learn/Exporting_your_work_from_ShareLaTeX

Assignment № 6 Page 6 / 10

PHIL110 - SCIENCE AND PSEUDOSCIENCE: EXAMPLES

May 10, 2016

18 Due Date

This assignment is due Monday, 3/28 (before class). To receive **full** credit, you must (i) bring a hard copy of this assignment to class and (ii) upload a PDF of the assignment to ANGEL before 11:59PM. To receive **partial** credit, you must upload a PDF of the assignment to ANGEL before 12:20PM (note this is the before class).

19 Assignment Description

Here are step-by-step instructions for the assignment.

- 1. You should already be signed up for LATEX and have completed the LATEX assignment.
- 2. Find an example of some pseudoscientific or paranormal belief. For some examples, see chapter 13 (course packet) or PDF uploaded to ANGEL.
- 3. Describe the pseudoscientific or paranormal belief. That is, do some quick research on the belief and (i) in one paragraph explain what the belief is and (ii) why people believe in this particular belief.
- 4. For **full credit**, bring a copy of your work to class on Monday (I'll ask you to share your example with your group and then explain your example in class). For **partial credit**, simply upload both the PDF and the source (.zip) file to the corresponding DropBox in ANGEL.

20 Assistance

If you run into trouble, here are some tutorials.

- Youtube video on how to create your first document using ShareLaTeX: https://www.youtube.com/watch?v=Qg2WtaSy-zQ
- 2. Tutorial on how to create various lists (including ORDERED, ENUMERATED) using ShareLa-TeX: https://www.sharelatex.com/learn/Lists
- 3. Tutorial on how to insert figures (including pictures) using ShareLaTeX: https://www.sharelatex.com/learn/Inserting_Images
- 4. Tutorial on how to save your work as a PDF or as SOURCE (.zip): https://www.sharelatex.com/learn/Exporting_your_work_from_ShareLaTeX

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PHIL110 - SCIENCE AND THE DEMARCATION PROBLEM

May 10, 2016

21 Due Date

This assignment is due Friday, 4/8 before 11:59PM EST.

22 Assignment Description

Here are step-by-step instructions for the assignment.

- 1. You should already be signed up for LATEX and have completed the LATEX assignment.
- 2. Read Martin Mahner's "Science and Pseudoscience: How to Demarcate after the (Alleged) Demise of the Demarcation Problem"
- 3. in an enumerated (numbered) list, list as many scientific indicators you can think of (you can use the list he provides as a guide, include at least ten)
- 4. Second, go through the list and rank each in terms of importance. You can use a ranking of 1-10 (10 being most important) or some other scheme, e.g. 1-3 (3 being most important).
- 5. Next, in a paragraph, explain how many indicators (or points) a field of knowledge must meet in order to qualify as a science.
- 6. Finally, show how your list works by picking two fields of knowledge (one science and one non-science (or pseudoscience), and then using the list to show that what is intuitively a science gets counted as a science while what is intuitively nonscience (pseudoscience) does not get counted as a science.
- 7. Upload both the PDF and the source (.zip) file to the corresponding DropBox in ANGEL.

23 Assistance

If you run into trouble, here are some tutorials.

- Youtube video on how to create your first document using ShareLaTeX: https://www.youtube.com/watch?v=Qg2WtaSy-zQ
- 2. Tutorial on how to create various lists (including ORDERED, ENUMERATED) using ShareLa-TeX: https://www.sharelatex.com/learn/Lists
- 3. Tutorial on how to insert figures (including pictures) using ShareLaTeX: https://www.sharelatex.com/learn/Inserting_Images
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Assignment № 8 Page 8 / 10

PHIL110 - Science, Pseudoscience, and the Courts

May 10, 2016

24 Due Date

This assignment is due Friday, 4/18 before 11:59PM EST.

25 Assignment Description

Here are step-by-step instructions for the assignment.

- 1. You should already be signed up for LATEX and have completed the LATEX assignment.
- 2. Read Michael Shermer's "Science and Pseudoscience: The Difference in Practice and the Difference It Makes"
- 3. in a paragraph, summarize either the case involving Arkansas Act 590 or the case involving the Dover School Board case.
- 4. in another paragraph, state whether you think creation-science or intelligent-design should be taught in schools. Be sure to give at least two reasons for your view.
- 5. Upload both the PDF and the source (.zip) file to the corresponding DropBox in ANGEL.

26 Assistance

If you run into trouble, here are some tutorials.

- 1. Youtube video on how to create your first document using ShareLaTeX: https://www.youtube.com/watch?v=Qg2WtaSy-zQ
- 2. Tutorial on how to create various lists (including ORDERED, ENUMERATED) using ShareLa-TeX: https://www.sharelatex.com/learn/Lists
- Tutorial on how to insert figures (including pictures) using ShareLaTeX: https://www.sharelatex. com/learn/Inserting_Images
- 4. Tutorial on how to save your work as a PDF or as SOURCE (.zip): https://www.sharelatex.com/learn/Exporting_your_work_from_ShareLaTeX

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PHIL110 - SCIENCE AND EVOLUTIONARY PSYCHOLOGY

May 10, 2016

27 Due Date

This assignment is due Monday, 4/25 before 11:59PM EST.

28 Assignment Description

Here are step-by-step instructions for the assignment.

- 1. You should already be signed up for LATEX and have completed the LATEX assignment.
- 2. Read Stefaan Blancke and Johan de Smedt's "Evolved to be irrational?: Evolutionary and Cognitive Foundations of Pseudosciences"
- 3. in a paragraph, summarize the dual-processing model of the mind (be sure to explain both parts of the mind)
- 4. in another paragraph, state how this model explains why people are evolved in a way to be inclined to believe in creationism (you can explain this either by explaining how we are evolved to believe in essentialism or our hyperactive agency detection)
- 5. in the final paragraph state whether you think this means belief in creationism is rational and whether it is unfair to call creationists irrational (give at least one reason for your view).
- 6. Upload both the PDF and the source (.zip) file to the corresponding DropBox in ANGEL.

29 Assistance

If you run into trouble, here are some tutorials.

- Youtube video on how to create your first document using ShareLaTeX: https://www.youtube.com/watch?v=Qg2WtaSy-zQ
- 2. Tutorial on how to create various lists (including ORDERED, ENUMERATED) using ShareLa-TeX: https://www.sharelatex.com/learn/Lists
- 3. Tutorial on how to insert figures (including pictures) using ShareLaTeX: https://www.sharelatex.com/learn/Inserting_Images
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