CE5120

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Flipped Classroom Paper

I do not have a classroom of my own to “flip” at the moment but I know that when I get my own classroom visitors will see extensive use of technology supporting my teaching and student learning. Running afterschool and summer activities, I have used Prezi to guide my students through the topic of different world cultures including music and videos to share with them. I have used Youtube tutorials as part of craft activities and often had different musical sources (local radio or Youtube playlists) entertaining students in the background as they completed creative activities. I share resources with my students so that they can access information on their own such as introducing them to zentangle.com and tanglepatterns.com. I love incorporating technology into our day and feel it is a wonderful fit to my philosophy of teaching kids “how to figure things out” rather than giving them the important information and having them memorize it. The rest of this paper highlights a “flipped” unit on Scientific Method for 6th graders.

* Procedure
  + Students view the BrainPop Jr video on “Scientific Method” <http://www.brainpopjr.com/science/scienceskills/scientificmethod/>
    - This may be done towards the end of class, at home for homework, or the next day some time before the actual science lesson
    - A skeleton study guide should be completed by students while viewing the video – see attached
  + The next science lesson will consist of this lesson plan: <http://www.teacherspayteachers.com/Product/Scientific-Method-Can-You-Write-a-Clear-Lab-Procedure-FREE-410139>
* Standards
  + Common Core Standard
    - RST.6-8.3 Follow precisely a multistep procedure when carrying out experiments
    - RST.6-8.4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases
    - RST.6-8.7 Integrate quantitative or technical information
    - RST.6-8.9 Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic
    - WHST.6-8.2d Write informative/explanatory texts…Use precise language and domain-specific vocabulary
    - WHST.6-8.4 Produce clear and coherent writing
    - RI.6.4 Determine the meaning of words and phrases as they are used in a text
    - RI.6.7 Integrate information presented in different media or formats
  + NET-S
    - Creativity and Innovation a,c
    - Research and Information Fluency d
    - Digital Citizenship b,c,d
    - Technology Operations and Concepts a

**Scientific Method Study Guide**

*Find these answers in the BrainPop Jr video on Scientific Method:* <http://www.brainpopjr.com/science/scienceskills/scientificmethod/>

|  |  |
| --- | --- |
| Order | Steps of the scientific method |
|  | Make a hypothesis – use what you know to make a prediction |
|  | Ask a question |
|  | Share what you learned |
|  | Do an experiment to test your hypothesis |
|  | Using data, draw conclusions about your experiment |

What question does Annie ask?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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What information that she knows does she use to make her hypothesis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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How did they do the experiment?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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What do you need to do to insure that you get accurate results? \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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How do you record data? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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What data did they collect?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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How did Annie use that data to draw her conclusion?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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