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**ARISE Questionnaire**

Dear ARISE participants:

We are in the process of planning the summer workshop. In an effort to design the two weeks to provide maximum benefit to you, we need some information from each of you individually.

Each participant should complete the following questionnaire and return it to us by May 15, 2009.

Thank you,

The ARISE Planning Team

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NAME \_\_\_\_\_ SCHOOL \_\_\_\_\_

In the first week of the summer workshop, topics covered will include molecular biology and bioinformatics. Please answer the following concerning this topic.

Do you currently include any treatment of genetically modified foods in your curriculum? If so, please describe below.

Do you currently include any treatment of taste and taste receptors in your classroom, including the ability to taste the bitter compound PTC? If so, please describe below.

Are you familiar with the use of micropipettes?      YES    NO

Do you currently conduct any of the following laboratory exercises as part of your curriculum?

- 1. Gel Electrophoresis                      YES    NO
- 2. DNA Restriction analysis              YES    NO
- 3. Bacterial transformation              YES    NO
- 4. Polymerase chain reaction              YES    NO

If yes, please describe briefly.

Do you currently include any discussion of bioinformatics? Bioinformatics is the field of science in which biology, computer science, and information technology merge to form a single discipline. YES NO  
 If so, please describe below.

We would also like to know the following about your classroom.

Do you keep classroom creatures?

Small mammals YES NO  
 Reptiles YES NO  
 Amphibians YES NO  
 Invertebrate YES NO

Do you keep classroom plants? YES NO

The Inquiry Constructs developed by Rhode Island are listed in the chart below. Please indicate to what extent your current curriculum requires students to be able to do the following inquiry tasks.

1 = not at all or rarely 2 = occasionally 3 = frequently

Inquiry Construct	1	2	3
<b>1.</b> Analyze information from observations, research, or experimental data for the purpose of formulating a question, hypothesis, or prediction: <b>1a.</b> Appropriate for answering with scientific investigation			
<b>1.</b> Analyze information from observations, research, or experimental data for the purpose of formulating a question, hypothesis, or prediction: <b>1b.</b> For answering using scientific knowledge			
<b>2.</b> Construct coherent argument in support of a question, hypothesis, prediction			
<b>3.</b> Make and describe observations in order to ask questions, hypothesize, make predictions related to topic			
<b>4.</b> Identify information/evidence that needs to be collected in order to answer the question, hypothesis, prediction			
<b>5.</b> Develop an organized and logical approach to investigating the question, including controlling variables			
<b>6.</b> Provide reasoning for appropriateness of materials, tools, procedures, and scale used in the investigation			
<b>7.</b> Follow procedures for collecting and recording qualitative or quantitative data, using equipment or measurement devices accurately			
<b>8.</b> Use accepted methods for organizing, representing, and manipulating data			

9. Collect sufficient data to study question, hypothesis, or relationships			
10. Summarize results based on data			
11. Analyze data, including determining if data are relevant, artifact, irrelevant, or anomalous			
12. Use evidence to support and justify interpretations and conclusions or explain how the evidence refutes the hypothesis			
13. Communicate how scientific knowledge applies to explain results, propose further investigations, or construct and analyze alternative explanations			

During the summer workshop, we will focus on how to develop inquiry-based lessons. In preparation for this summer, please provide us with a developed lesson plan that you would like to make more inquiry-based. Please format your lesson plan using the template and RI Grade Span Expectations provided on the ARISE website. Lesson plans should be submitted by **July 1, 2009**.

[http://brown.edu/Administration/Continuing\\_Studies/ap/projectarise/admitted.php](http://brown.edu/Administration/Continuing_Studies/ap/projectarise/admitted.php)

What else about inquiry would you like to be included in the summer workshop?

We would like to get a better idea of resources available at your school – so we can best determine how to stock mobile labs. Please review the list below and indicate items and amounts that are available to you. Please note that your responses do not affect use of mobile lab equipment.

Item	Yes	No	Quantity
Refrigerator for laboratory reagents			
Freezer for laboratory reagents			
Microwave			
Standard laboratory glassware (bottles, graduated cylinders, flasks, beakers)			
Digital or Polaroid camera for gel imaging			
Capability of printing digital images			
Computer classroom			
Electrophoresis supplies			
Gel boxes and combs			
Power supply and electrical leads			
Micropipettors (Please indicate available sizes)			
Pipette tips			
Microcentrifuge			
Hot plate or heating block to boil samples			
Thermometer			
Timers			
Stationary exercise equipment (bike, stairmaster...)			

Please return completed forms by May 15, 2009.

Forms may be sent via email to [ARISE@brown.edu](mailto:ARISE@brown.edu) Please include “2009 questionnaire” in the subject line. Forms may be sent by fax or U.S. mail to

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