What's My Line? – Circadian Rhythms
Student Information Page 4B

Activity Introduction:
Have you ever played Twenty Questions? Well, this activity is similar. By making observations and thinking about what you see, you will be able to figure out your own definitions.

Activity Background:
Students will make observations and figure out their own definitions, so no information is provided ahead of time. Background information is provided in the teacher section.

Activity Materials:
- Pictures shown by your teacher
- Copy of the Student Data Page

Procedure:
1. Carefully examine each graph shown. (shape, patterns)

2. Record your observations on the compare/contrast data sheet.

3. After scrutinizing 4 graphs, discuss a possible idea for the meaning of circadian rhythm.

4. Continue examining the graphs, recording observations each time.

5. When all the graphs have been shown, you and your partner have 5 minutes to develop a definition for circadian rhythms. Look at your data chart to help you.

6. Write your statement on the bottom to the compare/contrast sheet.

7. Have students share their observations and conclusions. Encourage and challenge group discussion.
First attempt: *I think Circadian Rhythms are:*
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________
Second attempt: *I think Circadian Rhythms are:*
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
Explain why you changed your definition.
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
Third attempt: *I think Circadian Rhythms are:*
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
Explain why you changed your definition.
__________________________________________________________________________________
__________________________________________________________________________________
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__________________________________________________________________________________
Class Consensus Definition of Circadian Rhythms:
_______________________________________________________________________
_______________________________________________________________________
_______________________________________________________________________
_______________________________________________________________________
Processing Out:

What part of the graphs helped you define circadian rhythm?
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____________________________________________________________________
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

How were you able to determine when your definition was incorrect?
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____________________________________________________________________
____________________________________________________________________
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How were you able to correct your definition as the activity progressed?
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____________________________________________________________________
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How do you think this process is similar to the process scientists use to analyze data?
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____________________________________________________________________
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____________________________________________________________________
____________________________________________________________________