***Energy Chain Poster Project:***

You will be assigned one of the following topics to create a poster illustrating the energy chain involved with the topic. Your grade will be based not only on how scientifically accurate your poster is but on how well you work together, your time on task and how clearly your poster gets the idea across to others.

**Jobs**

There will be three students per group (for most groups). Each person will have a job.

Team Leader – Your responsibilities include…

* Making sure the group is on time and using time wisely
* Making sure every member of the group is working together to accomplish your task.

Design Expert – Your responsibilities include…

* Making sure the poster is accurate (the images and arrows are correct)
* Making sure the poster is well designed (big enough to fill the whole poster)

Research Manager – Your responsibilities include…

* Making sure all research is appropriate (no one is playing on the iPads)
* Making sure all research is correct

**Grades**

You will receive 10 points each day that you participate (or a 0 for not participating). You will then receive a separate grade for your final project and presentation to the class. The rubric for this is attached so there are no questions or confusions about what is expected of your final project.

**\*\*\*EXTRA CREDIT –** if you add any other types of energy into your poster you can receive extra credit!

|  |  |
| --- | --- |
| Scenario #1  Using what you have learned about energy transformation and energy transfer, make an energy chain that traces the path of energy from a **hydroelectric power plant and right through your television**. Be sure to include all the forms of energy involved and the transfers that take place. | Scenario #2  Using what you have learned about energy transformation and energy transfer, make an energy chain that **starts at the sun, and traces the path of energy from a coal fired power plant and right through your television**. Be sure to include all the forms of energy involved and the transfers that take place. |
| Scenario #3  Using what you have learned about energy transformation and energy transfer, make an energy chain that starts at the **sun, and traces the path of energy from a gas fired power plant and right through your television**. Be sure to include all the forms of energy involved and the transfers that take place. | Scenario #4  Using what you have learned about energy transformation and energy transfer, make an energy chain that traces the path of energy from a **nuclear power plant and right through your television.** Be sure to include all the forms of energy involved and the transfers that take place. |
| Scenario #5  Using what you have learned about energy transformation and energy transfer, make an energy chain that **starts at the sun, and traces the path of energy from the sun, to fossil fuel to your car as you go to the mall**. Be sure to include all the forms of energy involved and the transfers that take place. | Scenario #6  Using what you have learned about energy transformation and energy transfer, make an energy chain that **starts at the sun, and traces the path of energy to you as you score a goal in soccer and right through the ball coming to rest in the net**. Be sure to include all the forms of energy involved and the transfers that take place. |
| Scenario #7  Using what you have learned about energy transformation and energy transfer, make an energy chain that **starts with the sun, and follows the solar energy through solar panels to trace the energy to your computer**. Be sure to include all the forms of energy involved and the transfers that take place. | Scenario #8  Using what you have learned about energy transformation and energy transfer, make an energy chain that **starts with you waking up in the morning and continues your routine until you walk into homeroom.** Be sure to include all the forms of energy involved and the transfers that take place. |
| Scenario #9  Using what you have learned about energy transformation and energy transfer, make an energy chain that | Scenario #10  Using what you have learned about energy transformation and energy transfer, make an energy chain that |

***Some links that may help:***

***Scenario 1-* Hydroelectric Power Plant to Television**

Electricity 101 Video- <http://www.youtube.com/watch?v=20Vb6hlLQSg>

The Energy Story: Turbines, Generators, and Power Plants- <http://www.energyquest.ca.gov/story/chapter06.html>

How Power Plants Work- <http://science.howstuffworks.com/electricity4.htm>

Energy 101: Hydropower Video: <http://www.youtube.com/watch?v=tpigNNTQix8&list=PLACD8E92715335CB2&index=14>

Energy Generation: <http://www.fi.edu/guide/hughes/powerplants.html>

***Scenario 2-* Sun to Coal Fired Power Plant to Television**

Electricity 101 Video- <http://www.youtube.com/watch?v=20Vb6hlLQSg>

The Energy Story: Turbines, Generators, and Power Plants- <http://www.energyquest.ca.gov/story/chapter06.html>

How Power Plants Work- <http://science.howstuffworks.com/electricity4.htm>

Coal and Gas Power Plant Virtual Tour:

<http://www.youtube.com/watch?v=j0e772Vo73k&feature=relmfu>

How Fossil Fuels are formed: <http://www.energyquest.ca.gov/story/chapter08.html>

Coal Formation: <http://www.youtube.com/watch?v=MBeXRRTGjNE&feature=related>

Energy Generation: <http://www.fi.edu/guide/hughes/powerplants.html>

***Scenario 3-* Sun to Gas Fired Power Plant to Television**

Electricity 101 Video- <http://www.youtube.com/watch?v=20Vb6hlLQSg>

The Energy Story: Turbines, Generators, and Power Plants- <http://www.energyquest.ca.gov/story/chapter06.html>

How Power Plants Work- <http://science.howstuffworks.com/electricity4.htm>

Coal and Gas Power Plant Virtual Tour:

<http://www.youtube.com/watch?v=j0e772Vo73k&feature=relmfu>

***Scenario 4-* Nuclear Power Plant to Television**

Electricity 101 Video- <http://www.youtube.com/watch?v=20Vb6hlLQSg>

The Energy Story: Turbines, Generators, and Power Plants- <http://www.energyquest.ca.gov/story/chapter06.html>

How Power Plants Work- <http://science.howstuffworks.com/electricity4.htm>

Energy Generation: <http://www.fi.edu/guide/hughes/powerplants.html>

***Scenario 5-* Sun to Fossil Fuel to Car**

How Fossil Fuels are formed: <http://www.energyquest.ca.gov/story/chapter08.html>

How a car engine works- <http://auto.howstuffworks.com/engine1.htm>

***Scenario 6-* Sun to you to Soccer Ball**

Energy Transfer when Eating- <http://www.saburchill.com/ans02/chapters/chap017.html>

Food Chain Energy- <http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa_pre_2011/foodchains/foodchains2.shtml>

***Scenario 7-* Sun to Solar Panels to your Computer**

Solar Energy 101- <http://www.solarworld-usa.com/solar-101/how-solar-panels-work>

How does Solar Power work?- <http://www.solartechnologies.com/cm/About-Solar-Power/how-does-solar-power-work.html>

Solar Generation- <http://www.edfenergy.com/energyfuture/solar-generation>

***Scenario 8-* You waking up until you walk into homeroom**

Energy Transfer when Eating- <http://www.saburchill.com/ans02/chapters/chap017.html>

Food Chain Energy- <http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa_pre_2011/foodchains/foodchains2.shtml>

***Scenario 9- Power Plant to Toaster to You before playing Basketball***

How a Toaster Works- <http://www.energyquest.ca.gov/how_it_works/toaster.html>

Energy Transfer when Eating- <http://www.saburchill.com/ans02/chapters/chap017.html>

Food Chain Energy- <http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa_pre_2011/foodchains/foodchains2.shtml>

***Scenario 10- Lighting Match to Smores to You listening to music***

Energy Transfer when Eating- <http://www.saburchill.com/ans02/chapters/chap017.html>

Food Chain Energy- <http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa_pre_2011/foodchains/foodchains2.shtml>

Light a match: Second Section- <http://www.fmschools.org/webpages/lgeracicivilett/science.cfm?subpage=10498>

**Research Worksheet**

Your Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Group Members Names

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Jobs – Each group member will have a job title – duties are on page 1

Team Leader \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Design Expert \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Research Manager \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scenario- what scenario number did your teacher give you?

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Begin Research – Day 1 and 2

Where does the energy start?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What are the energy transfers it goes through until the end? (Use the word “to” or arrows showing the transfer from one type to another)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Where did you find this information?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What materials are necessary for this energy transfer? (Example – a windmill, or solar panels, or a coal burning plant)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Where did you find this information?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Checkpoint #1 – Research \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Credit day 1 and 2)

**Sketch**

Your Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Group Members Names

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Before you draw on your poster, sketch the design for your transfers here. Each person must turn in a sketch paper!

Use the arrows to show the energy transfers from one type to another, from beginning, to end.

Checkpoint #2 – Sketch \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Credit day 1 and 2)

**Poster and Presentation**

Your Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Group Members Names

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Poster – After checkpoint #2 – ask your teacher for a piece of poster board (You will only receive one piece from your teacher. If you mess up, use the back. If you mess up again, you will need to find a way to get more poster board!)

Create the Visual Energy Transfer for your Scenario. It must take up the whole poster board, be colorful, and accurate. BE CREATIVE! Add a background, surroundings, or other specifics to help illustrate your scenario.

You must not only tell what transfers of energy are taking place, but also what exactly is happening in the context of your scenario. For example, in addition to saying Radiant Energy to Electrical Energy, you also will need to say Solar Panels convert light from the sun into electricity by creating an electric field. Be as descriptive as possible!

Checkpoint #3 – Poster \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Credit day 3 and 4)

Presentation – After checkpoint #3 – you and your group member will present your energy transfer to the class.

1. Everyone must talk!
2. Someone needs to read the original scenario to the class
3. You need to explain the energy transfers to the class. Where the energy started, and each type of energy you used to get to the “Final Destination”.
4. Explain the pictures that you used for each transfer. (The bus is on here because…)

Checkpoint #4 – PRESENTATION – USE THE RUBRIC FOR YOUR FINAL GRADE! (Credit day 5)

**Presentation Worksheet**

Your Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Group Members Names

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You will need to give me two facts for each scenario to receive your full presentation points. You will NOT need to write anything for your scenario. Simply write “Mine”.

Scenario #1 –

Fact #1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fact #2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scenario #2

Fact #1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fact #2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scenario #3

Fact #1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fact #2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scenario #4

Fact #1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fact #2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scenario #5

Fact #1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fact #2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scenario #6

Fact #1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fact #2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scenario #7

Fact #1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fact #2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scenario #8

Fact #1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fact #2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scenario #9

Fact #1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fact #2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scenario #10

Fact #1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fact #2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

My favorite poster was scenario \_\_\_\_\_\_\_\_\_ because … \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

My favorite presentation was scenario \_\_\_\_\_\_\_\_\_ because … \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Grade your group**

Your Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Group Members Names

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For each member of your group, you need to give them a grade for their participation, their job, and their presentation.

Group Member #1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Participation – Did this person participate daily and help the group out?

A-----B-----C-----D-----F

1. Job – Did this person always do their job during the project?

A-----B-----C-----D-----F

Group Member #2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Participation – Did this person participate daily and help the group out?

A-----B-----C-----D-----F

1. Job – Did this person always do their job during the project?

A-----B-----C-----D-----F

Group Member #3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Participation – Did this person participate daily and help the group out?

A-----B-----C-----D-----F

1. Job – Did this person always do their job during the project?

A-----B-----C-----D-----F

Yourself \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Participation – Did this person participate daily and help the group out?

A-----B-----C-----D-----F

1. Job – Did this person always do their job during the project?

A-----B-----C-----D-----F