



**Department of Education
Region X - Northern Mindanao
DIVISION OF CAGAYAN DE ORO**

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Learning Activity Sheets in Trends, Networks & Critical Thinking in the 21st Century



SHARED OPTIONS

Senior High Alternative Responsive Education Delivery

Competence. Dedication. Optimism

Preface

It has been elaborated in research and literature that the highest performing education systems are those that combine quality with equity. Quality education in the Department of Education (DepEd) is ensured by the learning standards in content and performance laid in the curriculum guide. Equity in education means that personal or social circumstances such as gender, ethnic origin or family background, are not obstacles to achieving educational potential and that inclusively, all individuals reach at least a basic minimum level of skills.

In these education systems, the vast majority of learners have the opportunity to attain high-level skills, regardless of their own personal and socio-economic circumstances. This corresponds to the aim of DepEd Cagayan de Oro City that no learner is left in the progression of learning. Through DepEd's flexible learning options (FLO), learners who have sought to continue their learning can still pursue in the Open High School Program (OHSP) or in the Alternative Learning System (ALS).

One of the most efficient educational strategies carried out by DepEd Cagayan de Oro City at the present is the investment in FLO all the way up to senior high school. Hence, Senior High School Alternative Responsive Education Delivery (SHARED) Options is

operationalized as a brainchild of the Schools Division Superintendent, Jonathan S. Dela Peña, PhD.

Two secondary schools, Bulua National High School and Lapasan National High School, and two government facilities, Bureau of Jail Management and Penology-Cagayan de Oro City Jail and Department of Health-Treatment and Rehabilitation Center-Cagayan de Oro City, are implementing the SHARED Options.

To keep up with the student-centeredness of the K to 12 Basic Education Curriculum, SHARED Options facilitators are adopting the tenets of Dynamic Learning Program (DLP) that encourages responsible and accountable learning.

This compilation of DLP learning activity sheets is an instrument to achieve quality and equity in educating our learners in the second wind. This is a green light for SHARED Options and the DLP learning activity sheets will continually improve over the years.

Ray Butch D. Mahinay, PhD
Jean S. Macasero, PhD

Acknowledgment

The operation of the Senior High School Alternative Responsive Education Delivery (SHARED) Options took off with confidence that learners with limited opportunities to senior high school education can still pursue and complete it. With a pool of competent, dedicated, and optimistic Dynamic Learning Program (DLP) writers, validators, and consultants, the SHARED Options is in full swing.

Gratitude is due to the following:

- ❖ Schools Division Superintendent, Jonathan S. Dela Peña, PhD, Assistant Schools Division Superintendent Alicia E. Anghay, PhD, for authoring and buoying up this initiative to the fullest;
- ❖ CID Chief Lorebina C. Carrasco, and SGOD Chief Rosalio R. Vitorillo, for the consistent support to all activities in the SHARED Options;
- ❖ School principals and senior high school teachers from Bulua NHS, Lapasan NHS, Puerto NHS and Lumbia NHS, for the legwork that SHARED Options is always in vigor;
- ❖ Stakeholders who partnered in the launching and operation of SHARED Options, specifically to the Bureau of Jail Management and Penology-Cagayan de Oro City Jail and the Department of Health-Treatment and Rehabilitation Center-Cagayan de Oro City;

- ❖ Writers and validators of the DLP learning activity sheets, to which this compilation is heavily attributable to, for their expertise and time spent in the workshops;
- ❖ Alternative Learning System implementers, for the technical assistance given to the sessions; and
- ❖ To all who in one way or another have contributed to the undertakings of SHARED Options.

Mabuhay ang mga mag-aaral! Ito ay para sa kanila, para sa bayan!

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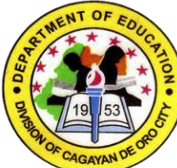
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	 <div>SHARED OPTIONS SENIOR HIGH ALTERNATIVE RESPONSIVE EDUCATION DELIVERY DLP LEARNING ACTIVITY SHEET</div>			
Trends, Networks and Critical Thinking in the 21st Century				
Activity Number	Learning Activity Title	Date	Score	Item
1	Definition of a trend			10
2	The process how to spot a trend			5
3	The different characteristics of a trend			30
4	Trends and Fad			10
5	Strategic analysis and intuitive thinking			5
6	Key components of strategic analysis			15
7	Creative solutions to a particular problem in a community using intuitive thinking.			5
8	Positive effects Globalization			25
9	Negative Effects of Globalization			10
10	Part and wholes in creative imagination			25
11	Climate Change: Activities showcasing care for environment			10
12	Causes of Climate change			25
13	Effects of Climate change			5
14	Contributions on how to solve the problem of climate change			10
15	Meaning and elements of democracy			15

16	Importance of participation in democracy			5
17	Participatory and representative democracy			10
18	The weakest link in a system using strategic and intuitive thinking			20
19	Benefits of technology			20
20	Utilization technology effectively rather than be enslaved by it			5
21	The connections, relationship, and networks			20
22	How the brain or neural network works			5
23	Comparison of the neural networks and social networks			10
24	Establish linkage between self and the social network			15

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Trends		
Learning Competency: Define a trend		
References: https://en.oxforddictionaries.com/definition/trend		LAS No. 1

CONCEPT NOTES

Trend - Defines as general direction in which something is developing or changing.
 - General development or change in a situation or in the way that people are behaving:

EXERCISES

A. Direction: Give one example of each trends below. Write your answer on the space provided.

- A. Title of Song: _____
 B. Hairstyle: _____
 C. Language expression: _____
 D. Movie: _____
 E. News: _____

B. Direction: Write **T** if the statement is true about the trend and **F** is false

- _____ 1. Last year's news is also a trend.
 _____ 2. Wireless Wi-Fi is one of the trends in technology nowadays.
 _____ 3. A line of development is called a trend
 _____ 4. It is fine to follow the trend even though you violate the rules in some particular occasion.
 _____ 5. The main objective of trend is for the betterment of life and not to make our life messy one.

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Steps to spot the trends		
Learning Competency: Identify the steps to spot the trends		
References: https://www.rubbercheese.com/how-to-spot-a-trend/		LAS No. 2

CONCEPT NOTES

STEPS TO SPOT THE TRENDS

Step 1: Know your objectives - Establish your goals and chosen business before you move forward.

Step 2: Understand the Landscape - These people are open minded and extravert who innovate new ideas, try new things, and generally don't care about what people think.

Step 3: Look & Observe - Immerse yourself in information from your chosen areas, research as much as you can.

Step 4: Connect the Dots - Once you've collated information and the latest news from your chosen area, you can start to assess and find connections between the elements.

Step 5: Assess & Test - Once you have connected the dots between your findings then you can then assess the potential trends to see how they are doing in the current landscape, and make potential predictions for future trends.

EXERCISE

Direction: Create a ladder organizer by identifying the steps on how to spot the trends.



Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Characteristics of Trend		
Learning Competency: Describe the characteristics of trend		
References: https://quizlet.com/236294351/elements-and-characteristics-of-trends-flash-cards/		LAS No. 3

CONCEPT NOTES

CHARACTERISTICS OF TREND

1. Duration of time - The lifespan of products or ideas that become trends do not disappear quickly. Trends have long staying power and enjoy a long period of popularity.

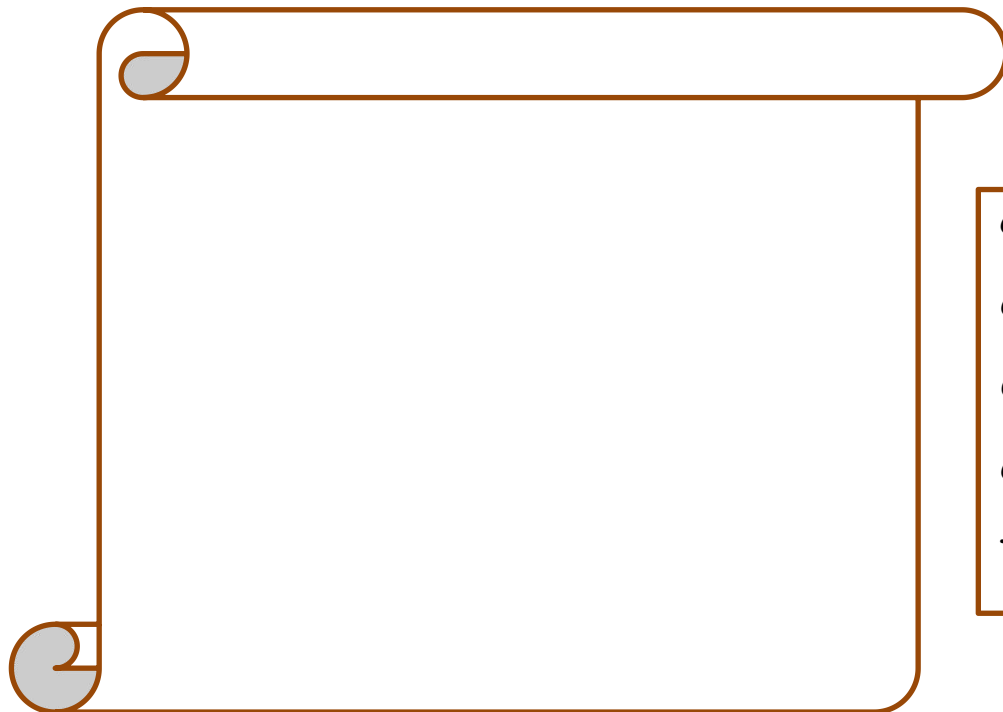
2. Acceptability - Trends are popularly accepted by many industries and people.

3. Cultural Basis - A trend is rooted on the people's cultural traditions, beliefs, and values. A trend persists and continues because people have seen it as part of a society's culture.

4. Transitory Increase or decrease - A trend shows a transitory increase or decrease of a particular idea, event or phenomenon.

EXERCISE

Direction: Choose one characteristics of a trend and make a slogan out of it.



Criteria:

Craftsmanship - 15

Originality - 10

Creativity - 5

Total = 30

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Trends and Fad		
Learning Competency: Differentiate trends from fad		
References: https://www.markschneiderdesign.com/jewelry-article/fad-trend-or-classic-what%E2%80%99s-difference		LAS No. 4

CONCEPT NOTES

TRENDS AND FADS

1. Trends

Trends have a much longer lifespan than fads. In fact, they can continue to be fashionable for years and even decades.

Example: specific colors can be declared "trendy." For 2014, the colors orange and blue garnered a lot of attention.

2. Fads

The easiest way to categorize a fad is one word: short-lived. Typically, fads last for a total of one season, but they can also last less than a month. It often fade as quickly as it appeared. Although engaging in fads can be fun, they are often not worth investing a large amount of money or time.

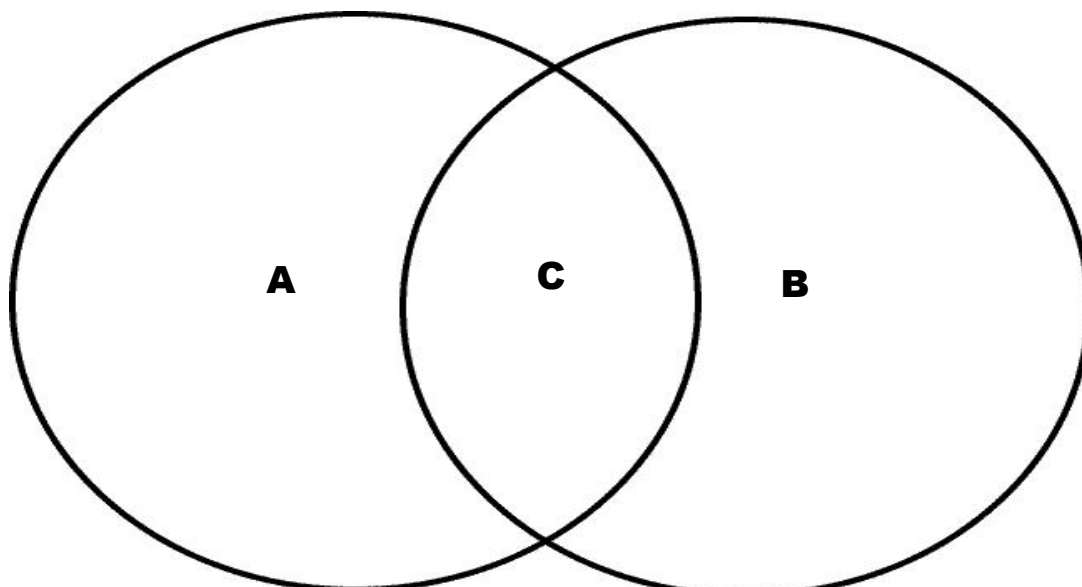
Example: are clothing, hairstyles, toys, and more.

EXERCISE

Direction: Differentiate trends from fad using the Venn diagram below.

A and **B** - Write their differences

C - Similarities



Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Strategic analysis and intuitive thinking		
Learning Competency: Explain strategic analysis and intuitive thinking		
References: https://quizlet.com/218787349/strategic-analysis-and-intuitive-thinking-flash-cards/		LAS No. 5

CONCEPT NOTES

Strategic analysis

The process of examining, using one's rationality or reason, the organization's resources, and how they relate with each other to formulate a strategy to meet objectives and improve performance. Decision is drawn from facts, data, and instructions at hand.

Intuitive thinking

The ability to understand something immediately, without the need for conscious reasoning "we shall allow our intuition to guide us". A thing that one knows or considers likely from instinctive feeling rather than conscious reasoning. It is also making choices or decision according to hunches or gut feelings without knowing the reason why

EXERCISE

Direction: Write **SA** if the statement is strategic analysis and **IT** if it is intuitive thinking. Write your answer on the space provided.

- _____

1. Decision is drawn from facts, data, and instructions at hand.
- _____

2. Your inner voice and will most likely be expressed in the language of your feelings.
- _____

3. It involves a methodical step-by-step approach.
- _____

4. Decision making is connected with your emotions even though there is no clear logic to prove that.
- _____

5. Making choices or decision according gut feelings without knowing the reason why.

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Key components of strategic analysis		
Learning Competency: Explain the key components of strategic analysis		
References: https://price-associates.com/effective-strategic-planning-3-essential-components/		LAS No. 6

CONCEPT NOTES

Effective strategic planning is a process that should be broken down into three equally important components: strategic thinking, long-range planning, and operational planning.

Strategic Thinking

This thinking includes reflective analysis about an organization's mission, vision, and values. The focus here is on intuitively feeling the organization's future at a deeper, contemplative level.

Long-Range Planning

This component focuses on studying the strategic issues of the organization using facts, figures, and research. It includes an in-depth understanding of the organization's strengths, limitations and opportunities. Long range planning results in 5-7 major strategic objectives that will become the focus for the next several years.

Operational Planning

The final phase of strategic planning is creating an operational plan which includes specific action plans, timelines, and systems of accountability. The goals in your operational plan should be SMART goals, or Specific, Measurable, Achievable, Relevant, and Timely.

EXERCISE

Direction: Write a reflection by completing the sentences below. Write your answers on the space provided.

I learned that _____

I realized that _____

If given the chance _____

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Creative solutions to a particular problem in a community using intuitive thinking.		
Learning Competency: Examine creative solutions to a particular problem in a community using intuitive thinking.		
References: https://tradingeconomics.com/philippines/unemployment-rate http://www.thetraveldebugger.com/2015/10/02/solutions-to-problems-of-the-philippines/		LAS No. 7

CONCEPT NOTES

PROBLEMS FACED BY THE COMMUNITY

- Graft and corruption**- This is serious issue. The Philippines is dying and progress is hindered because of corruption.
- Poverty** - Filipinos are having a hard time surviving in such difficult conditions, and more are falling into extreme poverty.
- Unemployment** - The unemployment rate in the Philippines dropped to 5.4 percent in the September quarter of 2018 from 5.6 percent a year ago.
- Land Transportation** - Too much congestion along the hi-ways with cars, buses, jeepneys, tricycles, etc. which lead to heavy traffic.
- Deforestation** - Is one of the largest environmental problems of the modern age. It causes loss of biodiversity, and destroys sensitive ecosystems.

EXERCISE

Direction: Matching type. Examine creative solutions to a particular problem in the community using intuitive thinking by matching the statements in column A to Column B. Write your answer on the space provided.

Column A (Problem)	Column B (Solutions)
_____1. Poverty	A. Build more roads and expressways
_____2. Unemployment	B. Better access to nutrition and health services
_____3. Graft and corruption	C. Create more jobs for Filipinos
_____4. Land Transportation	D. Strict implementation of the laws and penalty
_____5. Deforestation	E. Stop the environment destruction and plant more tress.

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Positive effects of Globalization		
Learning Competency: Explain the positive effects of Globalization		
References: http://www.opentextbooks.org.hk/ditatopic/7202		LAS No. 8

CONCEPT NOTES

Globalization - is a process of interaction and integration among the people, companies, and governments of different nations, a process driven by international trade and investment and aided by information technology.


POSITIVE EFFECTS OF GLOBALIZATION

Conversely, globalization can create new opportunities, new ideas, and open new markets that an entrepreneur may have not had in their home country. As a result, there are a number of positives associated with globalization:

- It creates greater opportunities for firms in less industrialized countries to tap into more and larger markets around the world
- This can lead to more access to capital flows, technology, human capital, cheaper imports and larger export markets
- It allows businesses in less industrialized countries to become part of international production networks and supply chains that are the main conduits of trade

EXERCISE

Direction: Draw any symbol or things that relates to the positive effects of globalization and explain briefly.



Criteria:

Composition - 10
Creativity - 5
Originality - 5
Explanation - 5
Total = 25

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Negative effects of Globalization		
Learning Competency: Explain the negative effects of Globalization		
References: http://www.opentextbooks.org.hk/ditatopic/7202		LAS No. 9

CONCEPT NOTES

NEGATIVE EFFECTS OF GLOBALIZATION

Critics of global economic integration warn that (Watkins, 2002, Yusuf, 2001):

- ✚ The growth of *international trade is exacerbating income inequalities*, both between and within industrialized and less industrialized nations
- ✚ Global commerce is *increasingly dominated by transnational corporations* which seek to maximize profits without regard for the development needs of individual countries.
- ✚ Protectionist policies in industrialized countries *prevent many producers in the Third World from accessing export markets*;
- ✚ The volume and *unpredictability of capital flows increases the risks of banking and currency crises*, especially in countries with weak financial institutions
- ✚ Competition among developing countries to attract foreign investment leads to a *"race to the bottom"* in which countries dangerously lower environmental standards
- ✚ Cultural uniqueness is lost in favor of homogenization and a *"universal culture" that draws heavily from American culture*.

EXERCISE

Direction: In two to three sentences write your reaction, comment or opinion about the controversial statement below.

"Globalization leads to losing of ones country's culture and identity"

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Part and wholes in creative imagination		
Learning Competency: Stress the important role of the creative imagination in putting together the various parts of a whole		
References: Sygaco, Sonia B (2017).Through the looking Glass: Trends, Networks, and Critical Thinking in the 21st Century. Pages 52-53.		LAS No. 10

CONCEPT NOTES

These five components of globalization such as **economy, politics, migration, ideas and the environment** constitute and integrate what we have today. If one part overpowers the other it creates a domino effect that will completely affect the entire system. When crisis happens, solutions are provided to create and make a reliable whole.

- Creative imagination** offers opportunity and allows thinkers to integrate the parts of a whole.
- Creative imagination** allows the developer or creator to improve the weakness of a product and hereby will provide solutions.
- Creative imagination** make the thinkers of the product or service to have a foresight of possible threats.

EXERCISE

Direction: Using your creative imagination. Draw one (1) technological invention, that might be a great help in our society and explain in two to three sentences.

Criteria:

Craftsmanship -	5
Originality -	5
Creativity -	5
Explanation -	10
Total	= 25

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Climate Change: Activities that exemplify care for the environment		
Learning Competency: List activities showcasing care for the environment		
References: Sygaco, Sonia B (2017).Through the looking Glass: Trends, Networks, and Critical Thinking in the 21st Century. Pages 52-53. http://www.takepart.com/flashcards/what-is-climate-change/index.html		LAS No. 11



CONCEPT NOTES

Climate change is the rise in average surface temperatures on Earth, mostly due to the burning of fossil fuels. Climate change, also called global warming, refers to the rise in average surface temperatures on Earth. Climate change is due primarily to the human use of fossil fuels, which releases carbon dioxide and other greenhouse gases into the air.

Activities showcasing care for the environment

1. Conserve water by turning off the faucet
2. Switch off the lights when not in use
3. Create an organic garden
4. Plant trees.
5. Create laws prohibiting cutting of trees

EXERCISE

Direction: Put  if the statement showcase the care for our environment and  if it does not. Write your answer on the space provided.

- _____ 1. Using plastic bags for putting groceries rather than using cloth bags.
- _____ 2. Garbage segregation.
- _____ 3. Recycled papers for projects in school.
- _____ 4. Burning of papers and plastics
- _____ 5. Transform used containers, cans, papers into home decors.
- _____ 6. Dispose garbage properly.
- _____ 7. Turn on the appliances when not in use.
- _____ 8. Cut down trees.
- _____ 9. Make compost pit for leaves, vegetable and fruit peelings.
- _____ 10. Throwing of plastics in the surroundings.

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Causes of Climate Change		
Learning Competency: Explain the causes of climate change		
References: Sygaco, Sonia B (2017).Through the looking Glass: Trends, Networks, and Critical Thinking in the 21st Century. Pages 52-53. http://www.takepart.com/flashcards/what-is-climate-change/index.html		LAS No. 12

CONCEPT NOTES

CAUSES OF CLIMATE CHANGE

An overwhelming scientific consensus maintains that climate change is due primarily to the human **use of fossil fuels**, which releases **carbon dioxide** and other **greenhouse gases** into the air. Greenhouse gasses from water vapor create warmer temperature resulting to a larger amount of water to evaporate.

Other human activities, such as **deforestation** contribute to the proliferation of greenhouse gases that cause climate change.

Another factor to the destruction of the environment is the **waste-by-products from economic activities** that eventually resulted to pollutants in the soil, water and air. People **convert forest to farmlands** until these lands were transformed to residential spaces.

EXERCISE

Direction: Draw any human activities which have contributed the impact of climate change.

Criteria:

Craftsmanship -	15
Originality -	5
Creativity -	5
Total	= 25

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Effects of Climate Change		
Learning Competency: Explain the effects of climate change		
References: Sygaco, Sonia B (2017).Through the looking Glass: Trends, Networks, and Critical Thinking in the 21st Century. Pages 52-53. http://www.takepart.com/flashcards/what-is-climate-change/index.html		LAS No. 13

CONCEPT NOTES

EFFECTS OF CLIMATE CHANGE

Climate change have a range effects on our ecosystems, it includes the rising of sea levels due to the melting of the polar ice caps.

Severe weather events, contribute to greater storm damage; warming ocean temperatures are associated with stronger and more frequent storms; additional rainfall, particularly during severe weather events, leads to flooding and other damage.

The incidence of droughts and severity of wildfires threatens habitats, homes, and lives; and heat waves contribute to human deaths and other consequences.

One of the most immediate impacts of climate change is the availability and production of food due to too much rainfall or the absence of rain. Flooding and storms greatly damaged the local crops and animals.

EXERCISE

B. True or False: Write T if the statement is true about the trend and F is false.

- _____ 1. Climate change is indeed occurring and it's almost certainly due to human activity.
- _____ 2. Rising sea levels due to the melting of the polar ice caps is caused by climate change.
- _____ 3. Wasting less food is a way to reduce greenhouse gas emissions.
- _____ 4. Greenhouse effect is when you paint your house green to become an environmentalist
- _____ 5. Majority of the scientists disagree that climate change is real and caused by human activities.
humans.

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Personal contributions that can actually solve the problem of climate change		
Learning Competency: Illustrate personal contributions that can actually solve the problem of climate change		
References: Sygaco, Sonia B (2017).Through the looking Glass: Trends, Networks, and Critical Thinking in the 21st Century. Pages 65-66.		LAS No. 14

CONCEPT NOTES

PERSONAL CONTRIBUTIONS IN SOLVING THE PROBLEM OF CLIMATE CHANGE

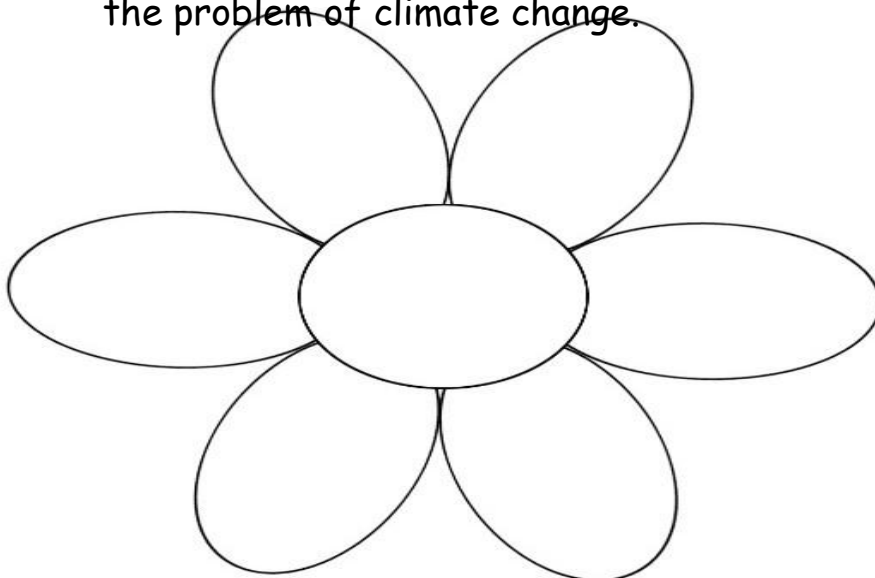
No one can totally reverse the progressing the climate change but eventually slow down its progression by educating oneself and being aware on how to minimize the global warming.

An individual's personal lifestyle can reduce the carbon impact and such act can make difference in the local setting.

1. Reduce the dependence on fossil fuel by using solar energy to source electricity and vehicle cars.
2. Walking or cycling to nearby area instead of commuting the jeepney.
3. Reuse and recycle all waste materials at home
4. Use LED bulb to reduce power consumption.
5. Stay healthy by eating less beef, chicken or pork to lessen the demand of production.

EXERCISE

Direction: In the petal web organizer, write your personal contributions in solving the problem of climate change.



Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Meaning and elements of democracy		
Learning Competency: Discuss the meaning and elements of democracy		
References: Sygaco, Sonia B (2017).Through the looking Glass: Trends, Networks, and Critical Thinking in the 21st Century. Pages 71-72.		LAS No. 15

CONCEPT NOTES

Democracy - Is derived from the Greek word, "**demokratia**" where the word "**demos**" means **the people** and "**kratus**" means **rule**.

- a government in which the **supreme power is vested in the people** and exercised by them directly or indirectly through a system of representation usually involving periodically held **free elections**
- Lincoln shared that democracy would be **government of the people, by the people and for the people**.
- Being a set of rights it is also the structure of economic and political life of government.

Four Elements of Democracy

1. When free and fair elections are created in selecting and switching the political structure.
2. When there is a dynamic engagement of citizens both in civic and politics.
3. When there is safeguarding of the human rights of every citizen.
4. When all the citizens are equal in the law.

EXERCISE

Direction: Draw a symbol that relates to the meaning of democracy and explain briefly.

Criteria:

- Creativity - 5
Originality - 5
Explanation - 5
Total = 15



Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Importance of participation in democracy		
Learning Competency: Explain the importance of participation in democracy		
References: Sygaco, Sonia B (2017).Through the looking Glass: Trends, Networks, and Critical Thinking in the 21st Century. Pages 75-76.		LAS No. 16

CONCEPT NOTES

IMPORTANCE OF PARTICIPATION IN DEMOCRACY

1. Democracy provides equality and admission to opportunities for all its citizens
2. Democracy checks and balances the government to prevent possible abuse of political power from the officials.
3. Democracy allows citizens to influence and suggest policies and laws through plebiscite in selecting delegates or representatives.
4. Democracy allows the popular majority to oust a representative or a politician who holds too much power.
5. Democracy promotes freedom where citizens enjoy human rights.
6. Democracy upholds change since the citizens have the opportunity to participate in the involvement of the government.
7. Democracy stops monopoly of power since each political representative or candidate has specific term in the political office.

EXERCISE

Direction: Draw **arrow up**  if the statement relates to the concept of Democracy and **arrow down**  if the statement does not relate to democracy. Write your answer on the space provided.

- _____

1. Social activity is controlled by a totalitarian state
- _____

2. Equal opportunities for all its citizens
- _____

3. Citizens do not enjoy the equal right to right to hold office
- _____

4. Checks and balances on the abuses from political power
- _____

5. Citizens enjoy freedom and human rights.

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Participatory and representative democracy		
Learning Competency: Differentiate participatory from representative democracy		
References: http://www.differencebetween.net/miscellaneous/politics/difference-between-participatory-democracy-and-representative-democracy/		LAS No. 17

CONCEPT NOTES

Democracy is generally perceived the most ideal and preferred system of governance based on its ability to empower its citizenry and enable self-determination. Much like any system of government, how a democracy is implemented and practiced has produced varying shades of opinion. Two such interpretations include representative democracy and participatory democracy.

Representative democracy - are indirect way of governance where sovereignty is in the hands of the representatives. This process involves an electorate selecting and voting on political candidates and/or political parties, who in turn make policy.

Example: *Countries like Canada, United States, and Philippines.*

Participatory democracy - It compels lay citizens to join in the decision making and give higher representation using the conventional representative governance. Participatory democracy is also known as direct democracy is where democracy takes place when people mandate directly.

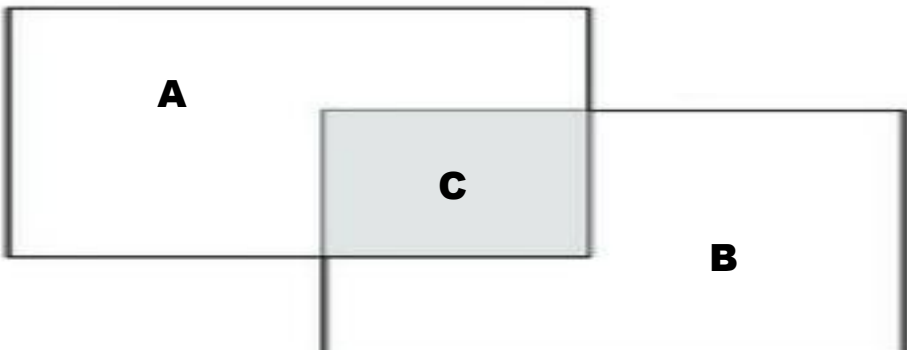
Example: *Switzerland is the only country that practices a form of direct democracy.*

EXERCISE

Direction: Differentiate trends from fad using the Venn diagram below.

A and **B** - Write their differences

C - Similarities



Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : The weakest link in a system using strategic and intuitive thinking		
Learning Competency: Identify the weakest link in a system using strategic and intuitive thinking		
References: https://www.slideshare.net/lemeshpandey/ict-tools-49910305		LAS No. 18

CONCEPT NOTES

Information Communication Technology (ICT) is an umbrella term that includes any communication device or application, encompassing: radio, television, cellular phones, computer and network hardware and software, satellite systems and so on, as well as the various services and applications associated with them.

ICT Tools - are devices or objects used in information and communication technology ex;- computer ,cell phones ,cell phone towers, video conferencing, software, radio, television , laptop, desktop computer etc.

Each ICT tool has its **strengths** and **weaknesses**. The best ICT tool is not necessarily the new or expensive one; the best ICT tool is actually dependent on the situation or context.

EXERCISE

Direction: Examine each of the strengths and weakness of laptops and cellphone. Fill out the table below.

Desktop Computer		Cellphone	
Strengths	Weakness	Strengths	Weakness

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Benefits of technology		
Learning Competency: Discuss the benefits of technology		
References: https://www.information-age.com/modern-technology-advantages-disadvantages-123465637/		LAS No. 19

CONCEPT NOTES

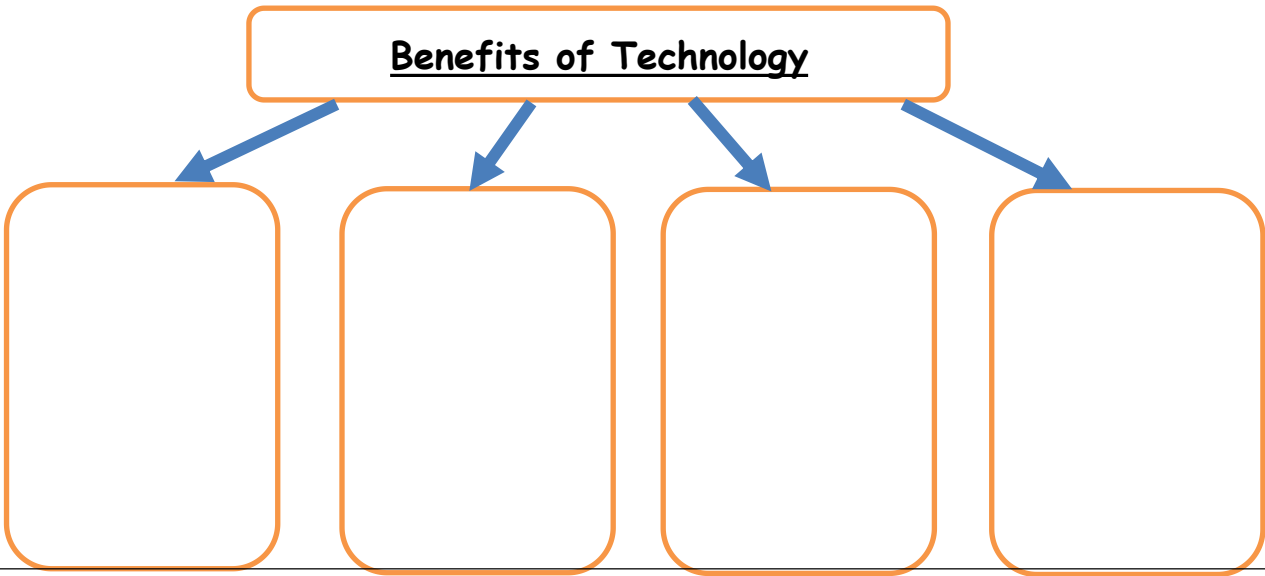
BENEFITS OF TECHNOLOGY

- The evolution of technology is beneficial to humans for several reasons.
- At the medical level, technology can help treat more sick people and consequently save many lives and combat very harmful viruses and bacteria.
 - The invention of the computer was a very important point.
 - Communication is thus enhanced, using mobile phones and other calling device it can communicate more easily.
 - For companies, progress is saving in time and therefore in money. Exchanges are faster especially with the internet connections.
 - Technology improves daily lives; allowing to move physical storage units to virtual storage banks and more.
 - Allows us to travel to be quicker and accessible.

EXERCISE

Direction: Aside from what is mention above about the benefits of technology, list

at least other 4 benefits of technology using the bubble map below.



Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Utilization technology effectively rather than be enslaved by it		
Learning Competency: Utilize technology effectively rather than be enslaved by it		
References: Sygaco, Sonia B (2017).Through the looking Glass: Trends, Networks, and Critical Thinking in the 21st Century. Pages 90-91.		LAS No. 20

CONCEPT NOTES

UTILIZATION OF TECHNOLOGY

A. Pollutes the environment from industrial waste.

Unwanted by-products from industries and manufacturing plants turns to pollute the air, water and soil.

B. Promotes endless wars.

Issues on making nuclear weapons and other weapons of mass destruction may lead to unending battle among the nations.

C. Replaces the jobs of the people.

Technology makes production of goods and services faster. It saves time, money and create a lesser workforce in the workplace.

D. Leads to dependence.

Many individuals tend to be addictive on online games and social networks using their gadgets. Such strong attraction leads to dependence on these devices.

EXERCISE

Direction: Write **T** if the statement is true about the trend and **F** is false

- _____

1. Waste from industries and manufacturing plants endangered our environment
- _____

2. Technology reduces creativity and intelligence because of being too reliant on the internet.
- _____

3. The use of nuclear weapons is an expression of individual freedom
- _____

4. Strong attraction to technological gadgets leads to dependence on these devices.
- _____

5. Technology makes production of goods and services slow.

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Establishing connections, relationship, and networks		
Learning Competency: Identify connections, relationship, and networks		
References: Sygaco, Sonia B (2017).Through the looking Glass: Trends, Networks, and Critical Thinking in the 21st Century. Pages 118. https://sielearning.tafensw.edu.au/MCS/9362/Sterilisation%20disk%203/lo/7377/7377_00.htm		LAS No. 21

CONCEPT NOTES

ESTABLISHING CONNECTIONS, RELATIONSHIPS AND NETWORK

A **network** is group of individuals who collaborates with each other to be able to achieve a purpose and connection. It also strengthen the work team to advocates issues, provide credibility, attain outcomes give accurate information, plan activities and solve potential problem.

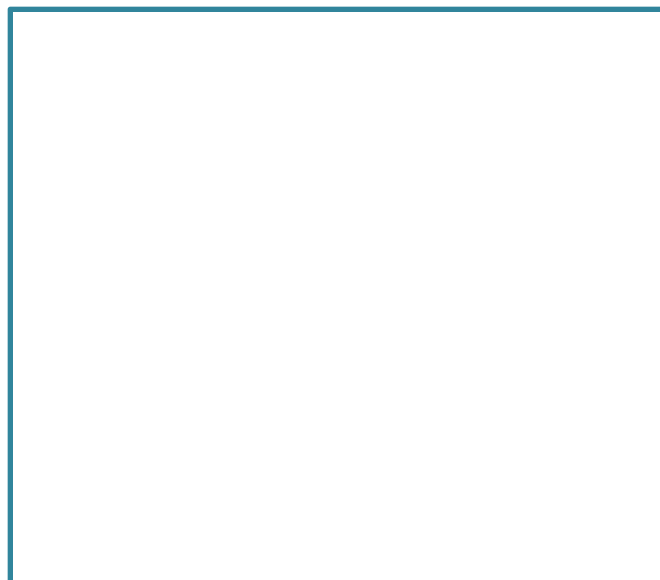
Networking help to empower individuals and strengthen the work team and the organization itself.

Workers network to:

- achieve outcomes
- establish credibility with relevant service providers
- work collaboratively to better meet the needs of clients
- support joint programs or activities

EXERCISE

Direction: In a separate box, copy and draw the sample networking services below.



Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : How the brain or neural network works		
Learning Competency: Illustrate how the brain or neural network works		
References: Sygaco, Sonia B (2017).Through the looking Glass: Trends, Networks, and Critical Thinking in the 21st Century. Pages 119.		LAS No. 22

CONCEPT NOTES

HOW THE BRAIN OR NEURAL NETWORK WORKS

From the body to the brain as well as back to the motor information of the brain to the body. The spinal cord transport sensory information and responsible for reflexes.

The brain lobes divide cerebral cortex into **occipital lobes**-responsible for vision **parietal lobes** for touch, **temporal lobes** for memory, hearing, facial and object perception while **frontal lobe** deals with movement, higher level psychological process and personality.

It should be looked that personal experiences affect the brains circuitry. Through time and engagement of various activities the brain may be reworked. Other researchers express that culture affects the brain activity as context for experience.

EXERCISE

Direction: Matching type. Match the item in column A with the items in column B. Write your answer on the space provided.

Column A

- _____ 1. Spinal Cord
- _____ 2. Temporal lobe
- _____ 3. Parietal lobe
- _____ 4. Occipital lobe
- _____ 5. Frontal lobe

Column B

- A. deals with movement, higher level Psychological process and personality.
- B. responsible for vision
- C. responsible for memory and hearing
- D. responsible for touch
- E. transport sensory information and Responsible for reflexes.

Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Comparison of the neural networks and social networks		
Learning Competency: Compare the neural networks and social networks		
References: https://www.slideshare.net/YesyCamposCampos/presentation-social-network-27386201		LAS No. 23

CONCEPT NOTES

NEURAL NETWORK AND SOCIAL NETWORKS

Neural network - It is an information processing paradigm that is modeled on the human brain and inspired by the way biological nervous systems, such as the brain, process information. Learning in biological systems involves adjustments to the synaptic connections that exist between the neurones. Neural networks have been used on a variety of tasks, including **computer vision, speech recognition, machine translation, social network filtering, playing board and video games and medical diagnosis.**

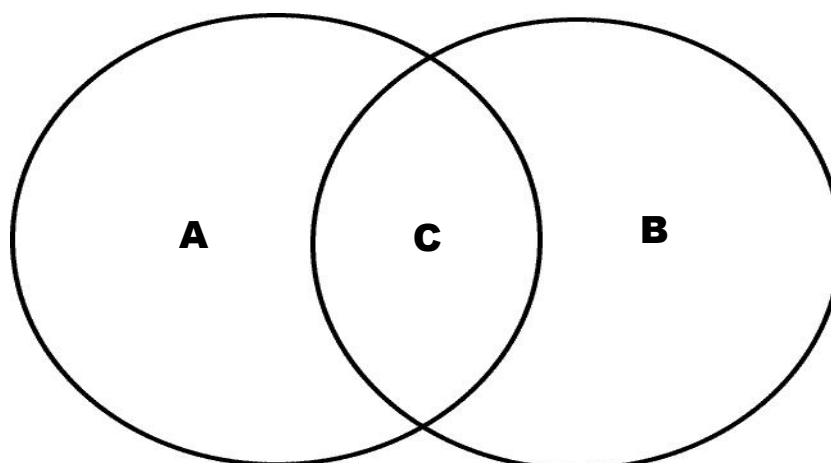
Social Network - are websites that allow people to connect with friends and even make new friends, virtually, and share content, interact, create communities of similar interests: working, reading, games, friendship, relationships, relationships and commercial. Social network includes; **facebook, twitter, yahoo, blogger and slideshare.**

EXERCISE

Direction: Differentiate neural network from social network using the Venn diagram below.

A and B - Write their differences

C - Similarities



Name:	Date:	Score:
Subject: Trends, Networks, and Critical Thinking in the 21st Century		
Lesson Title : Establish linkage between self and the social network		
Learning Competency: Establishing linkage between self and the social network		
References: https://www.slideshare.net/YesyCamposCampos/presentation-social-network-27386201		LAS No. 24

CONCEPT NOTES

ESTABLISHING LINKAGE BETWEEN SELF AND THE SOCIAL NETWORK

From a personal web page to full blown mass communication networks, members of the social networks **can access information within minutes**. Madison Ganda (2014) believes that these sites have gone from only being used by the computer savvy to incredibly user friendly and spreading worldwide.

The amount of time users employ in social networks will also **respond to a lesser time they spend on personal social interaction** with their love ones. Most of their socializing is closely associated within the glow of their phone or computers.

It is important to **wisely choose which among social networks** will fit into the persons interest since user may genuinely share what he or she thinks. The idea that people create certain images and desired impressions of self to others to attain it is to post their hobbies, movies, pictures of activities in the social network as a way they engage their audience and understand them.

EXERCISE

Direction: Write a reflection by completing the sentences below. Write your answers on the space provided.

I learned that _____

I realized that _____

If given the chance _____