



DUE: _____
50 Points

❄️Biology Carols❄️

This holiday season you will be hearing lots of holiday music and carols. To get you into the festive spirit a little early (and to review for your final exams), you will be creating biology carols.

- ❄️ You will be assigned a topic that you must write your song about.
- ❄️ Your song must be accurate to your topic. Use your unit objectives sheet to make sure you have all the important vocabulary and concepts.
- ❄️ You can use any holiday song as a **tune** for your song. You are not rewriting the song and changing only a few words of each line... you are creating a whole new song, sung to the tune or music of the holiday carol.
- ❄️ Your song needs to be at least 15 lines long – so you may need to add an extra stanza if you choose a short song. If it is a long song you do not have to sing the whole song.
- ❄️ You must type your song.

I have added lyrics to some holiday songs to be used as ideas for tunes to the back of this assignment. But be creative; choose your favorite holiday tune!

You will perform your song in class – you may teach it to others and have them sing it with you. Have photocopies of your song for every student.



Topics:

1. Darwin's Theory of Natural selection
2. Animal Behavior
3. Cycles in Ecosystems (nitrogen , carbon, phosphorous)
4. Macromolecules
5. Enzymes
6. Prokaryotic and Eukaryotic Cells
7. Cell Organelles – Structure and Function (ribosome, nucleus, mitochondria, chloroplast, golgi apparatus, endoplasmic reticulum)
8. Photosynthesis- light dependent
9. Photosynthesis – light independent & glucose formation
10. Aerobic Cellular Respiration
11. Anaerobic Cellular Respiration
12. Cell Membranes – include all proteins
13. Transport of Materials in/out of Cells (osmosis, diffusion, etc.)
14. Water Potential and Tonicity
15. Transpiration
16. Active vs. Passive Transport
17. Energy Flow in Ecosystems
18. Cell Cycle/Mitosis
19. Meiosis
20. Meiosis vs. Mitosis
21. Mendels Laws
22. Modes of Inheritance – random segregation of chromosomes, combinations of alleles in the gamete, prediction of possible combinations of alleles (punnett squares)

Song Idea List:

- ❄️ Dreidel, Dreidel, Dreidel
- ❄️ Rock of Ages
- ❄️ Silent Night
- ❄️ Jingle Bells
- ❄️ Frosty the Snowman
- ❄️ Here Comes Santa Claus
- ❄️ Oh Christmas Tree
- ❄️ Up on the Housetop
- ❄️ White Christmas
- ❄️ Here We Come A-Wassailing
- ❄️ I Saw Mommy Kissing Santa Claus
- ❄️ Joy to the World
- ❄️ Rudolph the Red Nosed Reindeer



Deck the Halls

Deck the halls with boughs of holly

Fa-la-la-la-la, la-la-la-la

'Tis the season to be jolly

Fa-la-la-la-la, la-la-la-la

Don we now our gay apparel.

Fa-la-la, la-la-la, la-la-la

Troll the ancient Yuletide carol.

Fa-la-la-la-la, la-la-la-la

See the blazing Yule before us.

Fa-la-la-la-la, la-la-la-la

Strike the harp and join the chorus.

Fa-la-la-la-la, la-la-la-la

Follow me in merry measure.

Fa-la-la, la-la-la, la-la-la

While I tell of Yuletide treasure.

Fa-la-la-la-la, la-la-la-la

Fast away the old year passes.

Fa-la-la-la-la, la-la-la-la

Hail the new ye lads and lasses

Fa-la-la-la-la, la-la-la-la

Sing we joyous all together.

Fa-la-la, la-la-la, la-la-la

Heedless of the wind and weather.

Fa-la-la-la-la, la-la-la-la



Chanukah - Oh Chanukah

Oh Chanukah, Oh Chanukah

Come light the Menorah

Let's have a party

We'll all dance the Horah

Spin the whirling dreidels

All week long

Eating the sizzling latkes

Sing a happy song

Now light them tonight then

The candles all in a row

We tell the wondrous story of God in His glory

The wonders of long ago.



Santa Claus Is Coming To Town

Oh! You better watch out,

You better not cry,

You better not pout,

I'm telling you why:

Santa Claus is coming to town!

He's making a list,

Checking it twice,

Gonna find out who's naughty or nice.

Santa Claus is coming to town!

He sees you when you're sleeping,

He knows when you're awake.

He knows if you've been bad or good,

So be good for goodness sake!

Oh! You better watch out,

You better not cry,

You better not pout,

I'm telling you why:

Santa Claus is coming to town!

Topic: _____
 Song Name: _____
 Tune: _____

Name: _____
 Date: _____ Period: _____

❄️Biology Carols❄️

	A - 5 pts	B - 4 pts	C - 3 pts	D - 2 pts	F - 1 pt	Your Score
Scientific Knowledge	Topic is thoroughly explained with lots of details. You really have a mastery of the topic.	Topic is explained with good details. You have a general mastery of the topic.	Topic is explained with some details. You don't express understanding of the topic.	Topic is not explained very well with little detail. You don't seem to understand your topic.	Little to no explanation of topic.	
Accuracy of Content	Information is well presented, clear, and correct throughout.	Information is clear and correct throughout most of the song.	Some solid information presented; however, some information is incorrect or cursory.	Information is cursory or incorrect. Little understanding of content is evident from the song.	Information about topic not presented.	
Inclusion of key vocabulary	All relevant vocabulary is included and the song helps to explain what the words mean	Most of the key vocabulary is included	Some key words are missing	Many key words are missing	Minimal use of vocabulary	
Format	Song is typed and contains at least 15 original lines (no repeats). It is organized and is written in a manner that allows the reader to identify the tune.	Song is typed and contains at least 15 original lines (no repeats). It is not well organized and is written in a manner that doesn't allow the reader to identify the tune.	Song is hand written and contains at least 15 original lines (no repeats). It is organized and is written in a manner that allows the reader to identify the tune.	Song is hand written and contains at least 15 original lines (no repeats). It is not well organized and is written in a manner that doesn't allow the reader to identify the tune.	Song is incomplete or messy.	

Topic: _____
 Song Name: _____
 Tune: _____

Name: _____
 Date: _____ Period: _____

❄️Biology Carols❄️

	A - 5 pts	B - 4 pts	C - 3 pts	D - 2 pts	F - 1 pt	Your Score
Scientific Knowledge	Topic is thoroughly explained with lots of details. You really have a mastery of the topic.	Topic is explained with good details. You have a general mastery of the topic.	Topic is explained with some details. You don't express understanding of the topic.	Topic is not explained very well with little detail. You don't seem to understand your topic.	Little to no explanation of topic.	
Accuracy of Content	Information is well presented, clear, and correct throughout.	Information is clear and correct throughout most of the song.	Some solid information presented; however, some information is incorrect or cursory.	Information is cursory or incorrect. Little understanding of content is evident from the song.	Information about topic not presented.	
Inclusion of key vocabulary	All relevant vocabulary is included and the song helps to explain what the words mean	Most of the key vocabulary is included	Some key words are missing	Many key words are missing	Minimal use of vocabulary	
Format	Song is typed and contains at least 15 original lines (no repeats). It is organized and is written in a manner that allows the reader to identify the tune.	Song is typed and contains at least 15 original lines (no repeats). It is not well organized and is written in a manner that doesn't allow the reader to identify the tune.	Song is hand written and contains at least 15 original lines (no repeats). It is organized and is written in a manner that allows the reader to identify the tune.	Song is hand written and contains at least 15 original lines (no repeats). It is not well organized and is written in a manner that doesn't allow the reader to identify the tune.	Song is incomplete or messy.	

❄️Biology Carols❄️

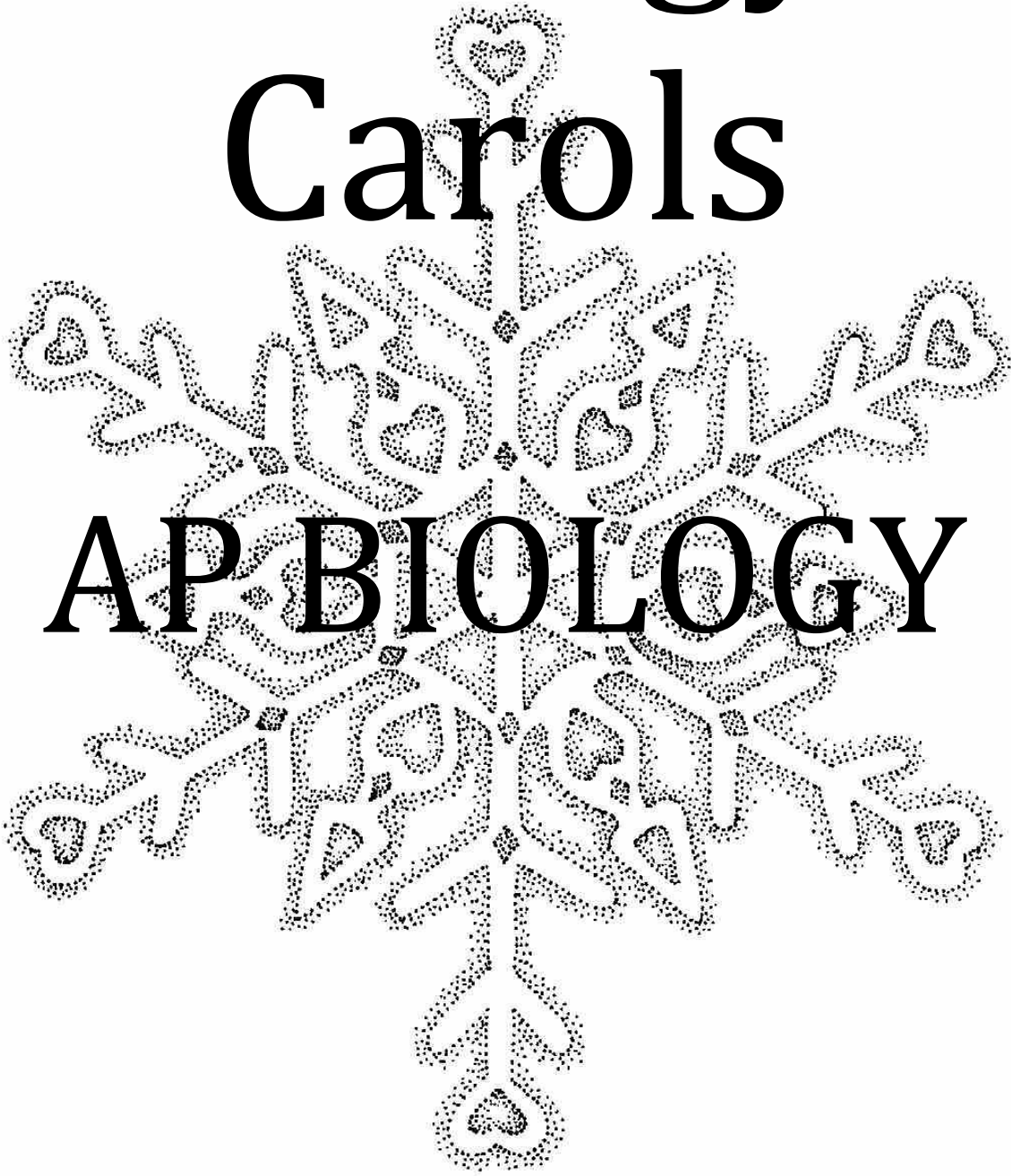
Sign Up List

Topics	Period 4	Period 5
Darwin's Theory of Natural Selection		
Animal Behavior		
Cycles in Ecosystems		
Macromolecules		
Enzymes		
Prokaryotic and Eukaryotic Cells		
Cell Organelles		
Photosynthesis – Light Dependent Reactions		
Photosynthesis – Light Independent & Glucose Formation		
Aerobic Cellular Respiration		
Anaerobic Cellular Respiration		
Cell Membranes		
Transport of Materials in/out of cells		
Water Potential and Tonicity		
Active vs. Passive Transport		
Energy Flow in Ecosystems		
Cell Cycle/ Mitosis		
Meiosis		
Meiosis vs. Mitosis		
Mendel's Laws		
Modes of Inheritance		

Biology

Carols

AP BIOLOGY





Biology Carols



Performed a holiday song

“

”

which taught me about



Carlmont Staff Member