

I'm not robot!

Model 3 - Molar Mass

Average Mass of a Single Particle		Average Mass of One Mole of Particles (Molar Mass)	
1 atom of hydrogen (H)	1.01 amu	1 mole of hydrogen atoms (H)	1.01 g
1 atom of copper (Cu)	63.55 amu	1 mole of copper atoms (Cu)	63.55 g
1 molecule of oxygen (O ₂)	32.00 amu	1 mole of oxygen molecules (O ₂)	32.00 g
1 molecule of water (H ₂ O)	18.02 amu	1 mole of water molecules (H ₂ O)	18.02 g
1 formula unit of sodium chloride (NaCl)	58.44 amu	1 mole of sodium chloride formula units (NaCl)	58.44 g

12. Look at a periodic table. What number in each element box would a chemist use to find the values in the "Average Mass of a Single Particle" column in Model 3?
They'd use the amu numbers.
13. How is the mass of a single particle changed to get the mass of one mole of particles?
The mass + the mole are the same.
14. Which sample contains more atoms, 18.016 amu of water or 18.016 g of water? Explain.
18.016g, because gram are way bigger than amu.
15. If the formula mass of iron(II) sulfate (FeSO₄) is 151.9 amu, what is the molar mass of iron(II) sulfate?
They are the same! (mass + mole are the same)
16. Use a periodic table to calculate the molar mass of ammonia (NH₃).
14 + 3 (1 + 1.01) = 17 moles
17. How would the number of atoms in a 1.01 g sample of hydrogen compare to the number of atoms in a 63.55 g sample of copper?
There would be more atoms in copper, because copper has a larger amu rate + there's more of it.

Read This!
Do laboratory "biggs" use a smaller? By estimating the size of atoms and taking volume measurements of 1 cubic centimeter (cm³) of water, we can estimate that
1 mole = 6.022 × 10²³ particles or 602 200 000 000 000 000 000 particles
(More than you could count in a lifetime!)
This number is called Avogadro's number, named after Amedeo Avogadro.

POGIL™ Activities for High School Chemistry

Name _____ Period _____
Fragment Revision Exercise: Identify each sentence with a C for Complete or an F for Fragment. If the sentence is a fragment you must write it complete on the back of this page.

- Then I attended Morris Junior High. A junior high that was a bad experience.
- The scene was filled with beauty. Such as the sun sending its brilliant rays to the earth and the leaves of various shades of red, yellow, and brown moving slowly in the wind.
- He talked for fifty minutes without taking his eyes off his notes. Like other teachers in that department, he did not encourage students' questions.
- Within each group, a wide range of features to choose from. It was difficult to distinguish between them.
- A few of the less serious fellows would go into a bar for a steak dinner and a few glasses of beer. After this meal, they were ready for anything.
- It can be really embarrassing to be so emotional. Especially when you are on your first date, you feel that you should be in control.
- The magazine has a reputation for a sophisticated, prestigious, and elite group of readers. Although that is a value judgment and in circumstances not a true premise.
- In the seventh grade every young boy goes out for football. To prove to himself and his parents that he is a man.
- She opened the door and let us into her home. Not realizing at the time that we would never enter that door in her home again.
- As Christmas grows near, I find myself looking back into my childhood days at fun-filled times of snowball fights. To think about this makes me happy.
- Making up his mind quickly, Jim ordered two dozen red roses for his wife. Hoping she would accept his apology.
- They were all having a good time. Until one of Joe's oldest and best friends had a little too much to drink.
- Although it only attained a speed of about twelve miles an hour. My old rowboat with its three-horsepower motor seemed like a high-speed job to me.
- With my brother standing by my side, I reached for the pot handle. Tilting the pot way too much caused the boiling water to spill.
- The small, one-story houses are all the same size and style. With no difference except the color.
- Being a friend of mine like he was when we first joined the soccer team. Together we learned a lot.

Indefinite and Reflexive Pronouns

Choose the correct pronoun to complete each sentence.

_____ has dreamed about space travel.

_____ get the chance to do it.

Astronauts train _____ to live in zero gravity.

We told _____ we wouldn't feel the effects.

After months in space, _____ lose muscle mass.

Has _____ measured space travelers' heights before and after their trips?

The body can adjust _____ to changes in atmosphere.

Astronauts face dangers, but _____ is glad for the chance to travel in space.

Anne pushed _____ physically and emotionally at space camp.

I _____ wouldn't apply for the space program.

RELATIVE CLAUSES

Use the following relative pronouns/adverbs to fill in the blanks.

who – which – where – when – why – whose

1. I don't know the names of the children _____ parents forgot to pick them up from school.
2. I had to sell my car and that's the reason _____ I take the bus to work now.
3. Don't sit on the chair _____ is broken. Here's another one.
4. This is the church _____ your mother and I got married.
5. That was the day _____ I decided to quit my job and set off on my journey around the globe.
6. Mrs. Johnson was the teacher _____ influenced me most as a teenager.

Make one sentence from each pair of sentences using a relative clause.

1. I need a book. It is on the top shelf.
The book _____ is on the top shelf.
2. I met a girl at the party. She's very friendly.
The girl _____ at the party is very friendly.
3. This is the station. Paul lost his suitcase here.
This is the station _____ his suitcase.
4. I don't know the woman. Her son is waving at me.
I don't know the woman _____ is waving at me.
5. 12th December is a very special date for us. We got married that day.
12th December is the day _____ got married.
6. These dresses are made by hand. That's why they're so expensive.
The reason _____ is that they are made by hand.

Choose the correct option to fill in the gaps.

1. I would like to see the film _____ you were talking about.
2. The woman _____ lent you the money is very generous.
3. Susan, _____ is very generous, lent me a large sum of money.
4. The teacher _____ car was stolen last week reported the theft to the police.
5. The library is the room _____ he spends most of his free time.

Combine these sentences using non-defining relative clauses.

1. There are four chairs. One of them is red. It is broken. It cannot be used.
The red chair, _____, cannot be used.
2. Mr. Arnold has a son. He lives abroad. He is very well off.
Mr. Arnold's son, _____, is very well off.
3. Allison is a good friend of mine. Her mother is my maths teacher.
Allison, _____, is a good friend of mine.

LIVEWORKSHEETS

Name _____ Period _____

Relative vs. Absolute Dating

Background

By knowing the age of the rock that a fossil is found in, geologists can usually tell the age of the fossil. Sometimes they cannot give it an exact date, but they know that it is older or younger than another fossil. Dating a fossil by saying it is older or younger than another fossil is called **relative dating**.

If the geologists know the exact age of a fossil, they usually express its age in millions of years ago (mya) that it was formed. Scientists use radioactive half-life data to determine a fossil's age. Dating a fossil by assigning it a specific age is called **absolute dating**.

Example(s):

Relative Dating

→ I am older than my sister but younger than my brother.

Absolute Dating

→ My older sister is 15 years old. I am 12 years old. My brother is 10 years old.

Directions: Put an "A" next to the examples of absolute dates and an "R" next to examples of relative dates.

1. _____ I walked home from school at 2:30 pm.
2. _____ First, I did my homework then I ate dinner.
3. _____ I ate 2 slices of pizza and 1 glass of water for dinner.
4. _____ After dinner, I rode my bike to my friend's house to play video games.
5. _____ Then I went to the store.
6. _____ I came home at 8:00pm and took a shower before bed.

Examine the following diagrams. Columns I and II contain rock layers A, B, C and D, E, F. Both columns were taken from the same dig site.

Column I Column II

7. Which two layers are of approximately the same age?

8. Which layer is the oldest? How do you know?

9. Which layer is the youngest? How do you know?

Relative dating worksheet 16 answer key. Fossils and relative dating worksheet key answers. What is relative dating used for. Supplemental relative dating answer key. Relative dating answer key. Answer key relative dating worksheet answers.

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