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Molecular Shapes
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Molecular Geometry
Bonus Key -
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Directions 1 2 3 4

Visit ...

Pairs of electrons associated with one atom in a molecule and... Pairs of electrons associated with one atom in a molecule and... The geometric shape formed by atoms bonded to the central atom... The geometric shape formed by

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atoms bonded to the
central atom....

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Description. Using

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screen shots, I tried to make a guide for the simulation that requires little-to-no added instructions and students will still get the benefits of the simulation that I want them to get. Subject.

Molecule Shapes -
Molecules | VSEPR |
Lone Pairs - PhET ...
?Molecule Shapes? -

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PhET Interactive Simulations

Student Guide for
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website: 2. Click the
black box to open the
Molecule Shapes
Viewer 3. Choose the
"Model" option once
the viewer opens 4.

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Print this worksheet,
complete the
questions below,
staple, and hand in on
the front table at the
beginning of lecture.

Phet Molecular
Shapes Answers
Recognize the
difference between
electron and
molecular geometry.

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Name molecule and electron geometries for molecules with up to six electron groups surrounding a central atom. Compare bond angle predictions from the VSEPR-based model to real molecules. Describe how lone pairs affect bond angles in real molecules.

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Molecule Shapes -
Guided-Inquiry
Activity - PhET
Contribution

Explore molecule shapes by building molecules in 3D! Find out how a molecule's shape changes as you add atoms to a molecule. Sample Learning Goals
Recognize that molecule shape is

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due to repulsions between atoms. Recognize that bonds are not fixed in place, but can rotate around in response to repulsions.

?Molecule Shapes? -
PhET Interactive
Simulations
Founded in 2002 by
Nobel Laureate Carl
Wieman, the PhET

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Interactive

Simulations project at the University of Colorado Boulder creates free interactive math and science simulations. PhET sims are based on extensive education research

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environment where students learn through exploration and discovery.

PhET: Molecule
Shapes - Chemistry
LibreTexts
Molecule Shapes
MODEL 1: Molecule
Shapes Simulation
PART I: ELECTRON
DOMAINS 1. Explore
the Model screen of

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the simulation. As you explore, answer the following questions. a. How does adding an atom affect the position of existing atoms or lone pairs? b. How does adding a lone pair affect the position of existing atoms and lone pairs? 2. Is the effect of adding bonded atoms and lone pairs to ...

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molecule-shapes -
PTHS AP

CHEMISTRY

Worksheet 15 -

Molecular Shapes

The shapes of
molecules can be
predicted from their
Lewis structures by
using the VSEPR
(Valence Shell
Electron Pair
Repulsion) model,

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which states that electron pairs around a central atoms will assume a geometry that keeps them as far apart from each other as possible. This is illustrated by the drawings below.

pHET Molecular
Shape Simulation
Worksheet -
MAFIADOC.COM

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PhET Molecule-Shapes-Student-Handout.docx What students are saying As a current student on this bumpy collegiate pathway, I stumbled upon Course Hero, where I can find study resources for nearly all my courses, get online help from tutors 24/7, and even share

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my old projects,
papers, and lecture
notes with other
students.

Molecular Geometry
and Polarity (PHET)
Molecule Shapes
"Molecule Shapes" is
an educational
simulation in HTML5,
by PhET Interactive
Simulations at the
University of Colorado

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Boulder. For a description of this simulation, associated resources, and a link to the published version, visit the simulation's web page. Try it!

butane.chem.uiuc.edu

Figure 1. The PhET Computer Simulation "Molecule Shapes".

Your initial task in this

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activity is to determine the molecule geometry as the number of elec-tron pairs changes. Accomplish this by using the computer simulation "Molecule Shapes" (shown at left) and fill in the table. Notice, in this simulation you can increase

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Molecule Polarity

Phet Answer Key |

Understanding

Science

Molecule Shapes -

Guided-Inquiry

Activity: Description

Learning goals for this

Guided-Inquiry

Activity include the

following. Students

will be able to: •

Determine electron

geometry and

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molecule geometry for molecules using VSEPR theory. •

Explain the role that nonbonding electron pairs play in determining molecule geometry.

Molecule Shapes:
Basics - Molecules |
Atoms | Bonds - PhET

...

Molecule Shapes

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BASICS Description

An activity in which students learn just five simple molecule shapes: linear, trigonal planar, tetrahedral, pyramidal, and bent.

PHeT_Molecule_Shapes - Molecule Shapes MODEL 1 Molecule ...
pHET Molecular

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Shape Simulation
Worksheet Follow the
procedures outlined
on the directions
sheet. Fill in the table
below accordingly.

ON THE PURPLE
CENTRAL ATOM,
ADD 1) 1 single bond
2) 2 single bonds 3) 3
single bonds 4) 4
single bonds 5) 1
single bond with 3
lone pairs 6) 2 single

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bonds with 2 lone
pairs 7) 3 single
bonds with 1 lone pair
8)

molecular shapes
Flashcards and Study
Sets | Quizlet
molecule is created,
remove any lone
electrons to observe
what is "seen" when
the molecule is
magnified. Spend just

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a few minutes here, confirming the shapes, bond angles, and geometry names used in class. heck the two "Name" tools and the . Play with the sim adding bonds and lone pairs. PhET Molecule Shapes.html5

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