

# Chemistry

Worksheets, Video Guides and Quizzes for

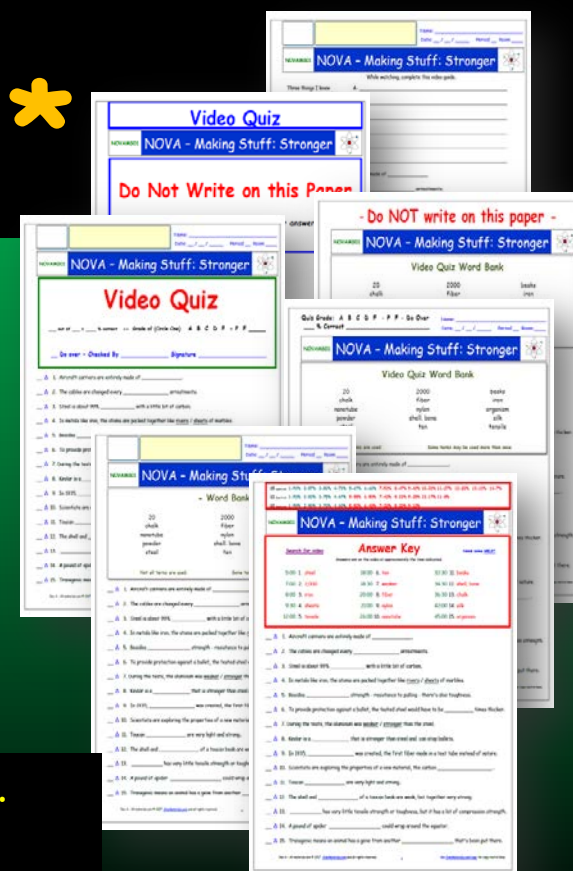
"Greatest Discoveries

With Bill Nye" \*



Differentiated

Video Guides, Quizzes  
and Answer Sheet



NOTE: Download is subject to terms and conditions listed [here](#).

\* Names used for reference only — not affiliated.



Name: \_\_\_\_\_

Date: \_\_\_ / \_\_\_ / \_\_\_\_\_ Period \_\_\_ Room \_\_\_

**BNGD\***  
**03**

# Chemistry



While watching, complete this video guide.

Three things I knew  
that were confirmed in  
the video:

A- \_\_\_\_\_

B- \_\_\_\_\_

C- \_\_\_\_\_

Three things I didn't know  
but I now know because I  
watched the video.

A- \_\_\_\_\_

B- \_\_\_\_\_

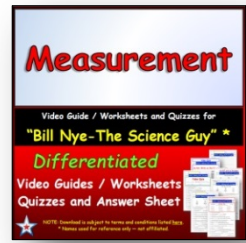
C- \_\_\_\_\_

- \_\_\_  $\Delta$  1. Leonardo da Vinci suggested that \_\_\_\_\_ might consist of two different gases.
- \_\_\_  $\Delta$  2. John Dalton hypothesized that elements must be made up of smaller pieces, called \_\_\_\_\_.
- \_\_\_  $\Delta$  3. Atomic theory defined the relationship between atoms and \_\_\_\_\_.
- \_\_\_  $\Delta$  4. Amedeo Avogadro realized that gases are made of multiple atoms called protons / molecules .
- \_\_\_  $\Delta$  5. August Kekule developed a system for visualizing the chemical / microscopic structure of various molecules.
- \_\_\_  $\Delta$  6. Kekule dreamed of a \_\_\_\_\_, helping him figure out how benzene molecules form a ring shape.
- \_\_\_  $\Delta$  7. Dmitri Mendeleev arranged all known elements into a periodic \_\_\_\_\_ , showing how the elements relate to each other.
- \_\_\_  $\Delta$  8. Humphry Davy discovered the power of \_\_\_\_\_ to react with chemicals and transform them.
- \_\_\_  $\Delta$  9. Bunsen and Kirchhoff made a \_\_\_\_\_, helping them see the spectra coming from heated elements.
- \_\_\_  $\Delta$  10. Everything we see is made of chemicals bonded / magnified through electron interactions.
- \_\_\_  $\Delta$  11. J. J. Thomson used a \_\_\_\_\_ to bend a stream of cathode rays.
- \_\_\_  $\Delta$  12. Two elements form a compound when they give up or accept \_\_\_\_\_ from their outer shell.
- \_\_\_  $\Delta$  13. Marie Curie's \_\_\_\_\_ are still considered too radioactive to handle.
- \_\_\_  $\Delta$  14. John Hyatt used molecules of cellulose from plants to create the first \_\_\_\_\_.
- \_\_\_  $\Delta$  15. Nanotechnology / Quantum mechanics allows us to create new, more precise products and applications.

# Video Guide / Worksheet / Quiz



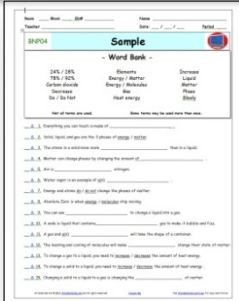
Click [HERE](#) for a FREE SAMPLE of the Video Guides, Worksheets and Quizzes.



Word Bank Version

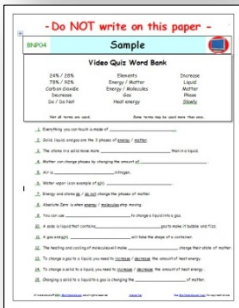
Easily Differentiated. The Questions are Identical.

Fill in the Blank Version



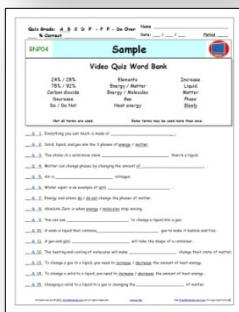
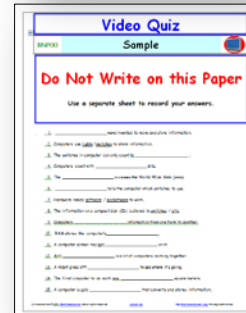
**Video Guide** 15 questions with the same "Look and Feel"- fill in the blank or forced decision so that students can keep up with the video.

- Word Bank for suggested answers.
- Students can fill them out before viewing and then correct the information while watching the video.
- Next to the question numbers there are triangles ( $\Delta$ ) that teachers may fill in indicating which questions are to be answered. This accommodation will limit the requirements for younger or special needs students.



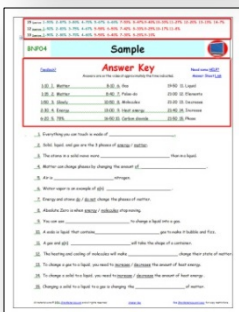
**Reusable Quiz** Print this on colored paper to reuse each year Next to the question numbers there are triangles ( $\Delta$ ) that teachers can choose indicating which questions are to be answered.

- Use as many questions as you wish 10, 12, 15.
- Ideal for 'clicker' response systems.
- Every quiz has the same "Look and Feel"
- Free Quiz answer sheet at: <http://www.StarMaterials.com/Documents/>



**Individual Quiz** Next to the question numbers, there are triangles ( $\Delta$ ) that teachers can use indicating which questions are to be answered.

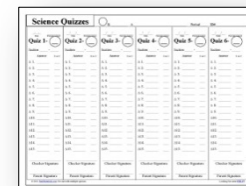
- When marking, have checkers put a "C" for correct and "X" for wrong in blanks next to the triangles ( $\Delta$ ) then count the "C"s for grade.
- Different classes can take different quizzes.
- Repeat or do-over quizzes can have different questions.
- Every quiz has the same "Look and Feel"
- Have students use ID Numbers only. Have them cross correct before returning the quiz to owner for names.



**Answer Key** The answer box lists suggested answers.

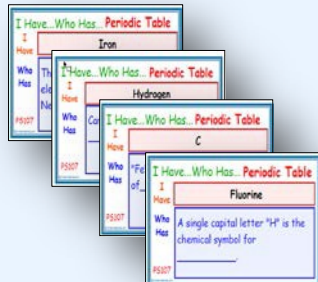
- Next to the answers are the times the material was presented in the video.
- Correct answer percentages are shown in the included table for a 10, 12, or 15 question quiz.
- Print the answer key on colored paper to find it quickly.
- A handy grading percentage key is provided at the top for easy grading.

Free Quiz Answer Sheet



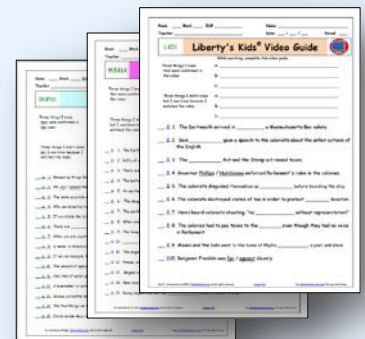
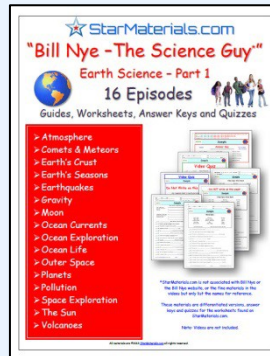
# Click on other Helpful Products from StarMaterials

## Free I Have, Who Has...



30 Questions and answers on 30 different cards.  
Many different content areas taught.

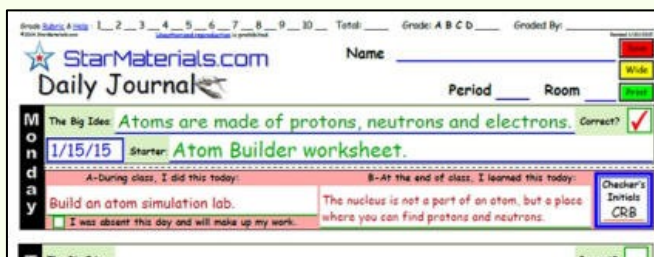
## Free Video Reviews



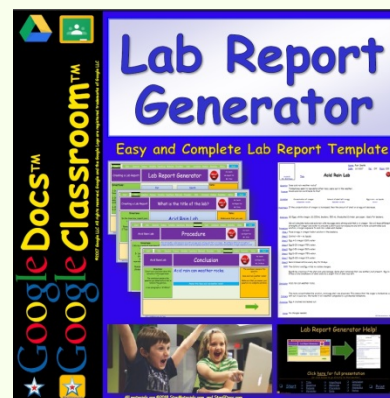
"Bill Nye - The Science Guy", "Magic School Bus",  
"The Eyes of Nye", "Liberty's Kids" and more.

# Interactive Products from StarMaterials

## Free I-Journals\*

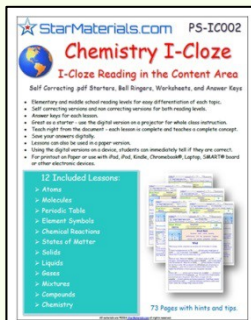


Writing in the Content Area (.pdf)  
Interactive journal worksheets.



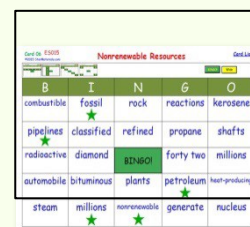
Google Doc™ Version  
Step through to a one page printout.

## Free I-Cloze\* Readings



Reading in the Content Area (.pdf)  
Interactive worksheets that are self-correcting.

## Free I-BINGO\* Review



Great concept introduction or review (.pdf)  
30 Interactive BINGO Cards.

\*Interactive lessons for printout on Paper or use with Google Docs™, iPad™, Kindle™, Chromebook™, Laptop, SMART™ board or other devices.