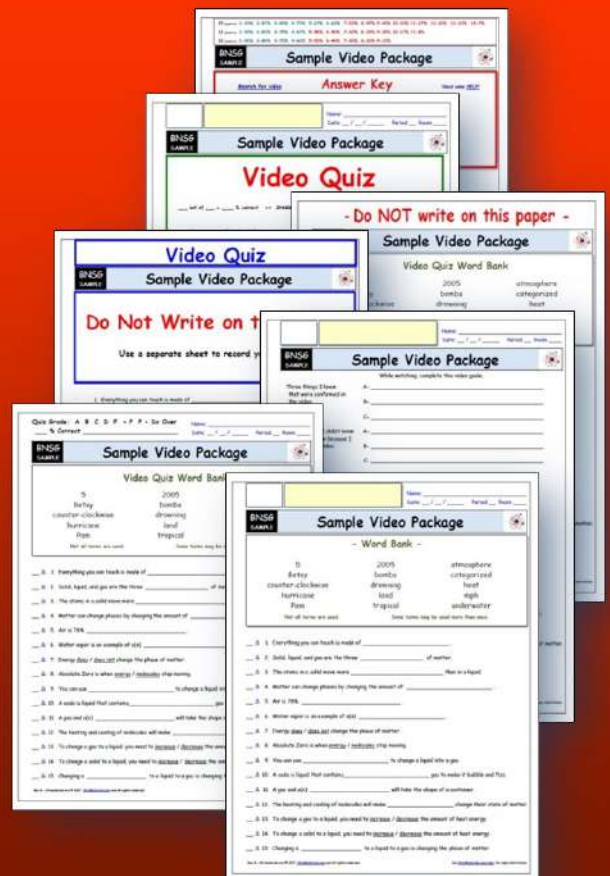


Energy

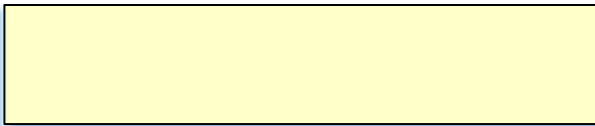
Video Guides and Quizzes for
"Bill Nye - The Science Guy" *

Differentiated

Video Guides
Quizzes and
Answers



* Names used for reference only — not affiliated.



Name: _____

Date: ____ / ____ / ____ Period ____ Room ____

BNSG
0305

Energy



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- _____

- ___ Δ 1. When we do something like open a door, we use _____ .
- ___ Δ 2. Sound, heat, falling things and _____ are all forms of energy.
- ___ Δ 3. Energy can / cannot be changed from one form to another.
- ___ Δ 4. The energy of lifting water above our heads is stored as potential / kinetic energy in the water.
- ___ Δ 5. Baking soda and vinegar cause a(n) _____ reaction that releases energy.
- ___ Δ 6. _____ energy can never be greater than the potential energy in a pendulum.
- ___ Δ 7. Electricity can be made by heating / cooling steam or by falling water used to turn a generator.
- ___ Δ 8. A _____ beam is heat converted from electricity and can burn through a piece of plywood.
- ___ Δ 9. We can _____ energy in a bungee cord.
- ___ Δ 10. A(n) _____ can convert falling water into electricity.
- ___ Δ 11. When fossil fuels like oil or coal are combined with oxygen, or _____, energy is released.
- ___ Δ 12. The energy stored in food is really stored light energy from the moon / sun.
- ___ Δ 13. Most of the energy in _____ is converted into heat by our bodies.
- ___ Δ 14. Energy can be converted from one form to another, but a little bit of it is converted into heat / cold so the conversion is not perfect.
- ___ Δ 15. Potential energy is converted into kinetic energy when bungee cords are compressed / released.

Seven Page Video Guide – Paper Version



Word Bank Version

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

Select the Version. The Questions are Identical.

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 (Δ) 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 (Δ) that teachers can choose indicating which questions are to be answered.

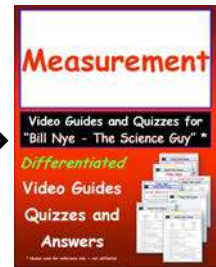
- Use as many questions as you wish 10, 12, 15.
- Ideal for 'clicker' response systems.
- Every quiz has the same "Look and Feel"
- Free Quiz answer sheet at: <http://www.StarMaterials.com/Documents/>

Individual Quiz Next to the question numbers, there are triangles (Δ) 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 (Δ) 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.



Fill in the Blank Version

Free Quiz Answer Sheet

Now Available for iPads and Devices!

Works BEST with Free [Acrobat Reader](#)

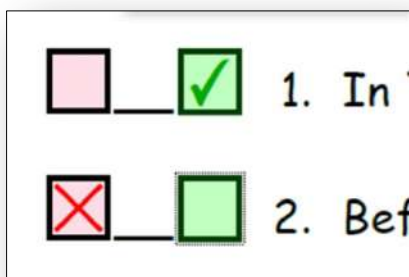


Because these documents are interactive, with **drop down lists**, **interactive checkboxes**, and **form fields**, we need you to try it out on your own devices.

So, we are giving you a fully functional sample of a "Measurement" video guide for the episode from the "Bill Nye - The Science Guy"* series. Download it from [here](#) and try it on your devices.

Because there are so many different devices (iPads, Chromebooks, Kindles, etc.) with so many different software packages, we designed this document for the **FREE Adobe Acrobat Reader**. You may have various levels of success with your device configuration.

Try it. If you like it or want a specific video guide, email us at iPad@StarMaterials.com and we'll do our best to help.



Sample Interactive Guide

Name: Terry Hopewell
Date: 1/17/2017 Period: 4, Room: 238

BNSW 0102

- Word Bank -

| | | |
|-------------|-------------|-------------|
| alternative | do not work | experiments |
| feel | iron | medicines |
| more | music | narrow |
| nocebo | placebo | purple |
| red | rust | vibrations |

Not all terms are used. Some terms may be used more than once.

1. Ferro fluid is a liquid with _____ in it.

2. Magnetic knee bands actually _____.

3. Because the iron is bound by oxygen, _____ doesn't stick to magnets.

4. Double-blind _____ alternative _____ yes.

5. The word _____ do not work _____

6. Some say that _____ feel _____ everything.

7. Organs and cells respond to specific _____ iron _____

8. Sound therapy and _____ therapy are two different therapies.

9. Alternative _____ make people feel better.

10. The _____ effect is when a negative outcome from expecting something negative to happen occurs.

11. Lyall Watson called the five senses "_____ along."

12. A medical joke: what do you call alternative medicine that's proven to work? _____

13. When tested, _____ color meant that the liquid was acidic.

14. Usually, _____ color means a really base liquid.

15. The milk of magesia was _____ effective than the stomach treatment liquid.

Some terms may be used more than once.

permanent shutdown of all _____ nuclear _____ power plant:

derived its _____ boiling _____ or reactors.

_____ fuels for power. _____ earthquake _____

_____ electricity _____

_____ fossil _____

_____ fuel _____

_____ largest _____

_____ nuclear _____

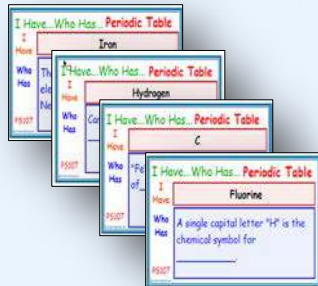
_____ in the world.

underwater, in a steel pressure vessel, surrounded by a steel building.

*StarMaterials.com is not affiliated with Bill Nye or the videos in any way! Use of the names and titles are for ease of use and for reference only.

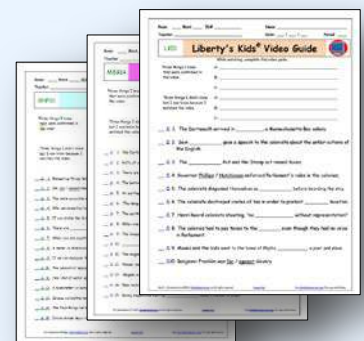
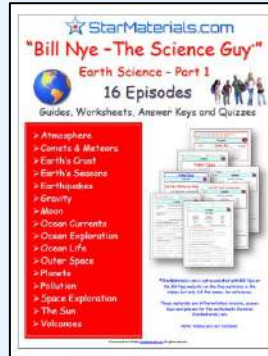
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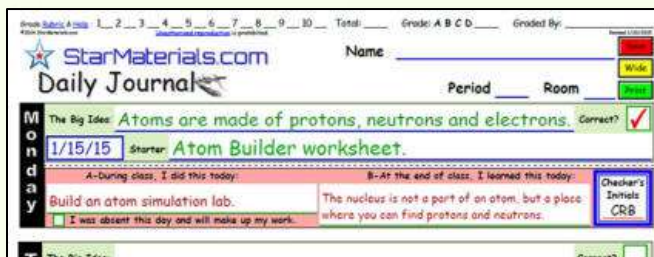
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"Bill Nye - The Science Guy", "Magic School Bus",
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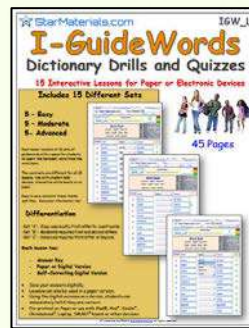
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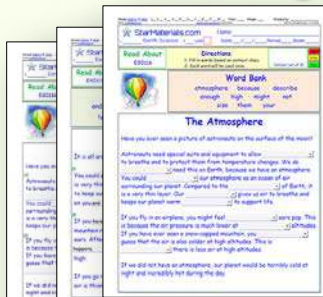
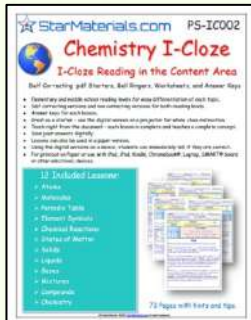
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Interactive journal worksheets.

Free I-Guides*



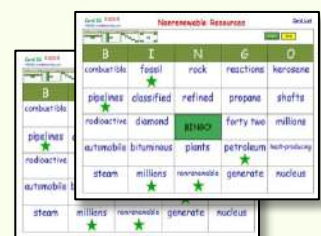
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