

# Motion

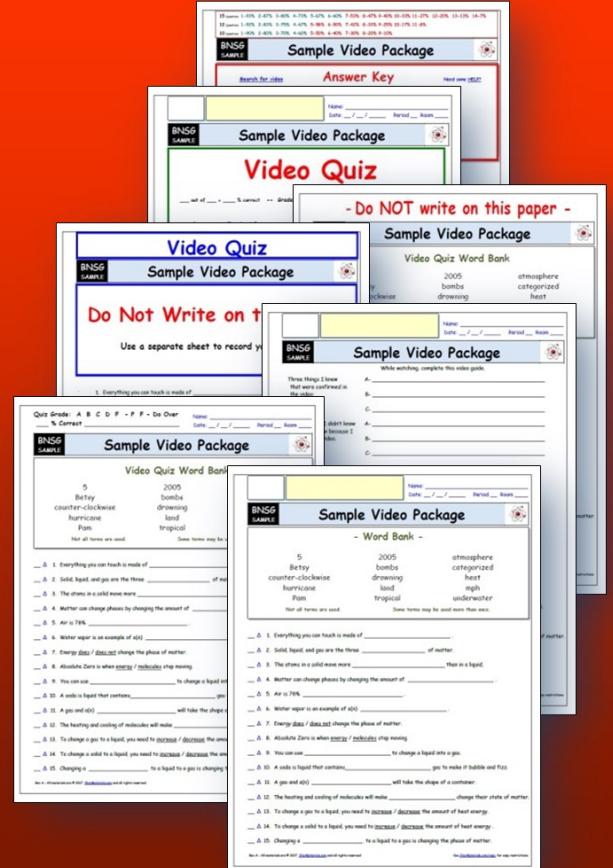
# Video Guides and Quizzes for “Bill Nye - The Science Guy” \*

# *Differentiated*

# Video Guides

# Quizzes and

# Answers



\* Names used for reference only – not affiliated.

BNSG  
0520

# Motion



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- \_\_\_\_\_

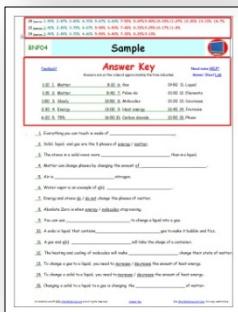
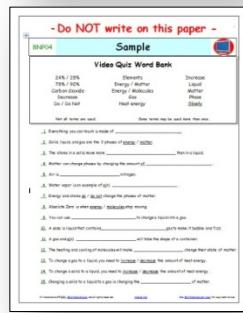
C- \_\_\_\_\_

- \_\_\_  $\Delta$  1. Everything that exists in the universe is in \_\_\_\_\_.
- \_\_\_  $\Delta$  2. To figure out motion, you need to know if you are pushing things or if things are \_\_\_\_\_ you.
- \_\_\_  $\Delta$  3. The air scooter does not \_\_\_\_\_ until it is pushed.
- \_\_\_  $\Delta$  4. If something is \_\_\_\_\_, it stays still unless an outside force acts upon it.
- \_\_\_  $\Delta$  5. \_\_\_\_\_ is a property of matter.
- \_\_\_  $\Delta$  6. Whether an \_\_\_\_\_ is moving or staying still, it has inertia.
- \_\_\_  $\Delta$  7. Things can / cannot be moved if it is pushed or pulled.
- \_\_\_  $\Delta$  8. Newton's \_\_\_\_\_ law of motion states that an object at rest stays at rest and an object in motion stays in motion.
- \_\_\_  $\Delta$  9. Newton's third law of motion states that for every action there is an equal and opposite \_\_\_\_\_.
- \_\_\_  $\Delta$  10. The scale is measuring the pull of the Earth's \_\_\_\_\_ on the apple.
- \_\_\_  $\Delta$  11. When the plane pulls up the scale reads \_\_\_\_\_ because the plane is pulling the apple against gravity.
- \_\_\_  $\Delta$  12. In \_\_\_\_\_ the laws of motion still apply.
- \_\_\_  $\Delta$  13. The tablecloth couldn't move objects because it was moving too \_\_\_\_\_ to affect their inertia.
- \_\_\_  $\Delta$  14. The solar system does / does not move.
- \_\_\_  $\Delta$  15. Even if we do not feel it we are all moving very slow / pretty fast.

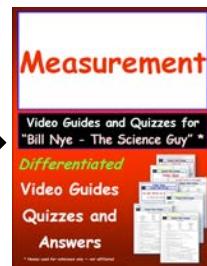
# Seven Page Video Guide - Paper Version



## Word Bank

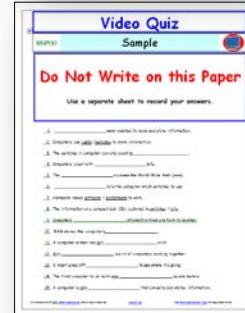


**Click HERE for a FREE SAMPLE  
of the Video Guides, Worksheets and Quizzes.**



# Fill in the Blank

## Version



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 ( $\Delta$ ) 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.



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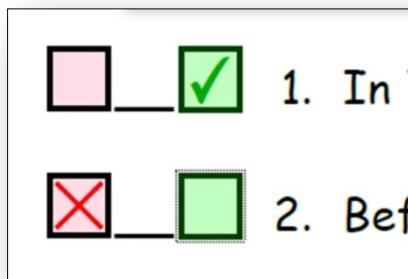


Because these documents are interactive, with drop down lists, interactive checkboxes, and form fields, we need you to try it out on your own devices.

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](mailto:iPad@StarMaterials.com) and we'll do our best to help.



Sample Interactive Guide

Word Bank

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

Some terms may be used more than once.

1. Ferro Fluid is a liquid with \_\_\_\_\_ in it.

2. Magnetic knee bonds actually \_\_\_\_\_.

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

4. Double-blind \_\_\_\_\_.

5. The word \_\_\_\_\_.

6. Some say that \_\_\_\_\_.

7. Organs and cells respond to specific \_\_\_\_\_.

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 " \_\_\_\_\_".

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 magnesia was \_\_\_\_\_ effective than the stomach treatment liquid.

Some terms may be used more than once.

permanent shutdown of all \_\_\_\_\_ power plant.

derived its \_\_\_\_\_ nuclear \_\_\_\_\_ power reactors.

fuels for power. \_\_\_\_\_.

ever have been growing rapidly \_\_\_\_\_.

one of the \_\_\_\_\_ in the world.

underwater, in a steel pressure vessel, surrounded by a steel \_\_\_\_\_.

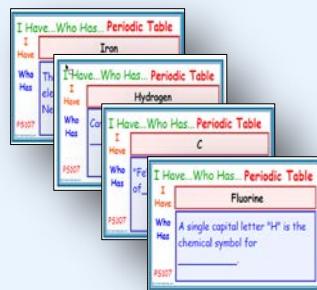
nuclear \_\_\_\_\_.

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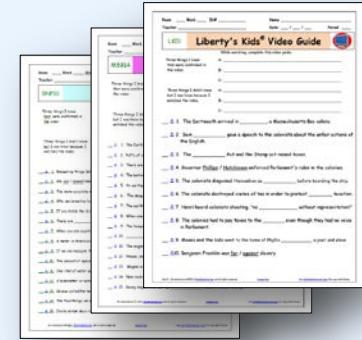
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Many different content areas taught.

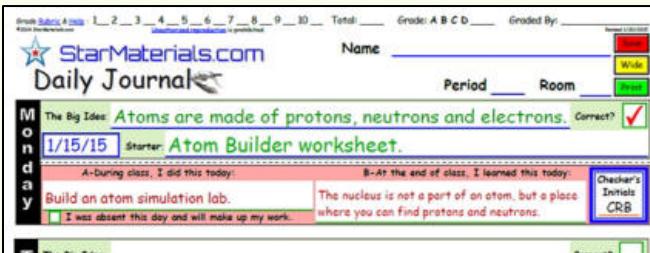
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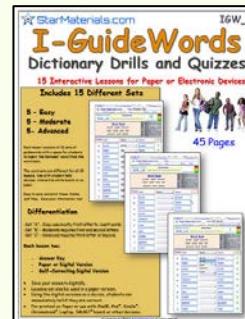
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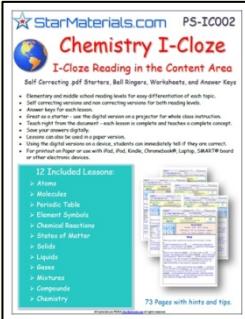
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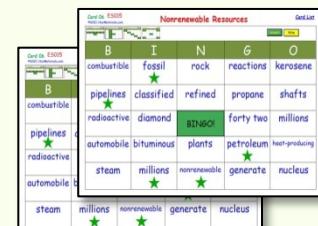
Interactive worksheets that are self-correcting.

#### Free I-BINGO\* Review



Great concept introduction or review (.pdf)

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



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