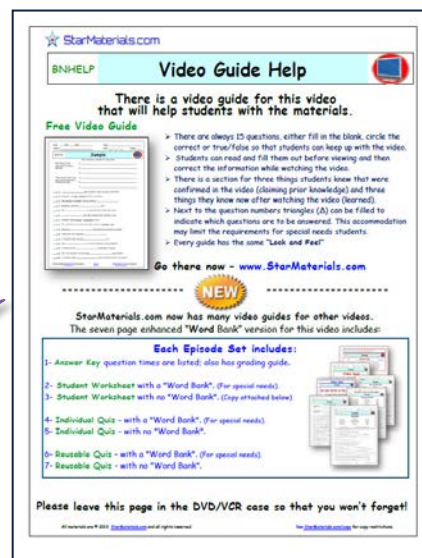




*Don't worry, the worksheet is attached.*

- There are two sheets attached. One is the worksheet you were looking for and the other is the Video Guide Help to leave in the VHS or DVD case for a fellow teacher.

**PRINT THIS NOTICE  
and put it in the  
DVD or VHS case.**



- Please print out both sheets and place the Video Guide Help sheet in the VHS or DVD case.

**PRINT THE WORKSHEET  
from the website every  
time for the latest copy.**



- The Video Guides are constantly being updated and revised. Please simply go to the [StarMaterials.com](http://StarMaterials.com) website and download a fresh copy of the free worksheet as you need it.
- Keep checking the website for the latest teacher created and teacher tested tools for your classroom.



**There is a video guide for this video that will help students with the materials.**

## Free Video Guide

- There are always 15 questions, either fill in the blank, circle the correct or true/false so that students can keep up with the video.
- Students can read and fill them out before viewing and then correct the information while watching the video.
- There is a section for three things students knew that were confirmed in the video (claiming prior knowledge) and three things they know now after watching the video (learned).
- Next to the question numbers triangles (Δ) can be filled to indicate which questions are to be answered. This accommodation may limit the requirements for special needs students.
- Every guide has the same "Look and Feel"

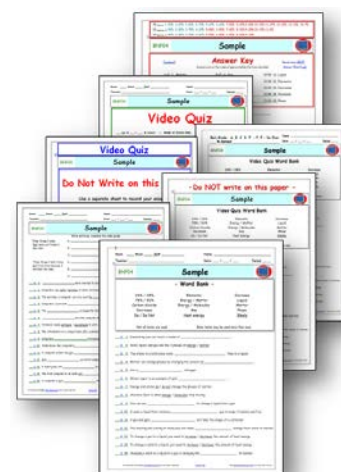
**Go there now - [www.StarMaterials.com](http://www.StarMaterials.com)**

**NEW**

**StarMaterials.com now has many video guides for other videos.**  
The seven page enhanced "Word Bank" version for this video includes:

### Each Episode Set includes:

- 1- **Answer Key** question times are listed; also has grading guide.
- 2- **Student Worksheet** with a "Word Bank". (For special needs).
- 3- **Student Worksheet** with no "Word Bank". (Copy attached below)
- 4- **Individual Quiz** - with a "Word Bank". (For special needs).
- 5- **Individual Quiz** - with no "Word Bank".
- 6- **Reusable Quiz** - with a "Word Bank". (For special needs).
- 7- **Reusable Quiz** - with no "Word Bank".



**Please leave this page in the DVD/VCR case so that you won't forget!**

Room \_\_\_\_\_ Block \_\_\_\_\_ ID# \_\_\_\_\_

Name \_\_\_\_\_

Teacher \_\_\_\_\_

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Period \_\_\_\_\_

BNP06

# Buoyancy



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. The whole reason things stay afloat or sink is because water is \_\_\_\_\_.
- \_\_\_ Δ 2. If you are \_\_\_\_\_ water, you are pushing it out of the way.
- \_\_\_ Δ 3. The water something displaces does / does not weigh the same as the item displacing it.
- \_\_\_ Δ 4. The shape of a boat does / does not make a difference on whether or not it will float.
- \_\_\_ Δ 5. Things displace as much water as they \_\_\_\_\_.
- \_\_\_ Δ 6. Things will / will not sink until they float.
- \_\_\_ Δ 7. An item will \_\_\_\_\_ until it displaces as much water as it weighs.
- \_\_\_ Δ 8. One person leaving one piece of trash on a beach causes / does not cause a problem.
- \_\_\_ Δ 9. When thrown in a pool, an empty milk carton will \_\_\_\_\_.
- \_\_\_ Δ 10. People, like Bill Nye, tend to \_\_\_\_\_ in water.
- \_\_\_ Δ 11. By filling their swim bladders with \_\_\_\_\_ fish can control their depth in water.
- \_\_\_ Δ 12. Something has \_\_\_\_\_ buoyancy if it doesn't either sink or float.
- \_\_\_ Δ 13. A buoyancy compensator is a vest scuba divers fill with air to control how much they swim / float.
- \_\_\_ Δ 14. It is possible / impossible to float in air.
- \_\_\_ Δ 15. If the amount something weighs is the same as the displaced weight of the water, it \_\_\_\_\_.



## Word Bank

Sample Word Bank

24% / 24%	Elements	Decrease
78% / 78%	Energy / Matter	Liberal
Carbon dioxide	Energy / Matter	Reform
Reform	Heat energy	Phases
Heat energy	Heat energy	Steady

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

1. Everything you can touch is made of \_\_\_\_\_.

2. Solid, liquid, and gas are the phases of matter.

3. The state in which matter exists \_\_\_\_\_.

4. Matter can change phases by changing the amount of \_\_\_\_\_.

5. Air is \_\_\_\_\_.

6. Water vapor is an example of \_\_\_\_\_.

7. Energy and matter do not change the phases of matter.

8. Absolute zero is when energy \_\_\_\_\_.

9. The rate at which \_\_\_\_\_ changes liquid into a gas.

10. A solid is liquid that contains \_\_\_\_\_.

11. A gas and \_\_\_\_\_ will take the shape of a container.

12. The heating and cooling of substances can \_\_\_\_\_.

13. To change a gas to a liquid, you need to \_\_\_\_\_.

14. To change a solid to a liquid, you need to \_\_\_\_\_.

15. Changing a solid to a liquid is called \_\_\_\_\_.

## Select the Version.

## The Questions are Identical

**Video Guide** There are always 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.

## Fill in the Blank

Sample Fill in the Blank

1. Everything you can touch is made of \_\_\_\_\_.

2. Solid, liquid, and gas are the phases of matter.

3. The state in which matter exists \_\_\_\_\_.

4. Matter can change phases by changing the amount of \_\_\_\_\_.

5. Air is \_\_\_\_\_.

6. Water vapor is an example of \_\_\_\_\_.

7. Energy and matter do not change the phases of matter.

8. Absolute zero is when energy \_\_\_\_\_.

9. The rate at which \_\_\_\_\_ changes liquid into a gas.

10. A solid is liquid that contains \_\_\_\_\_.

11. A gas and \_\_\_\_\_ will take the shape of a container.

12. The heating and cooling of substances can \_\_\_\_\_.

13. To change a gas to a liquid, you need to \_\_\_\_\_.

14. To change a solid to a liquid, you need to \_\_\_\_\_.

15. Changing a solid to a liquid is called \_\_\_\_\_.

## 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 choose 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

Science Quizzes

Quiz 1: 10 Questions

Quiz 2: 12 Questions

Quiz 3: 15 Questions

Quiz 4: 10 Questions

Quiz 5: 12 Questions

Quiz 6: 15 Questions

Quiz 7: 10 Questions

Quiz 8: 12 Questions

Quiz 9: 15 Questions

Quiz 10: 10 Questions

Quiz 11: 12 Questions

Quiz 12: 15 Questions

Quiz 13: 10 Questions

Quiz 14: 12 Questions

Quiz 15: 15 Questions

Quiz 16: 10 Questions

Quiz 17: 12 Questions

Quiz 18: 15 Questions

Quiz 19: 10 Questions

Quiz 20: 12 Questions

Quiz 21: 15 Questions

Quiz 22: 10 Questions

Quiz 23: 12 Questions

Quiz 24: 15 Questions

Quiz 25: 10 Questions

Quiz 26: 12 Questions

Quiz 27: 15 Questions

Quiz 28: 10 Questions

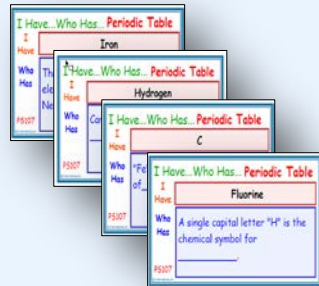
Quiz 29: 12 Questions

Quiz 30: 15 Questions



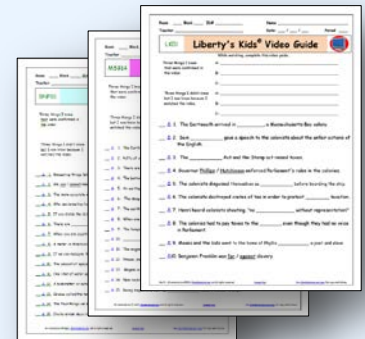
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30 Questions and answers on 30 different cards.  
Many different content areas taught.

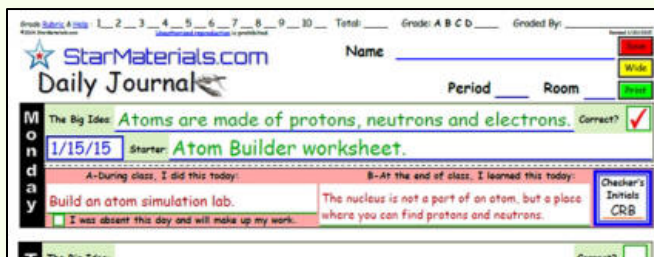
## Free Video Reviews



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

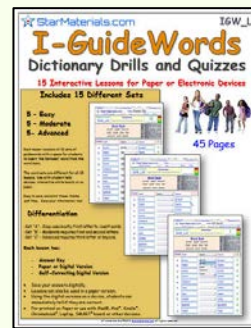
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## Free I-Journals\*



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

## Free I-Guides\*



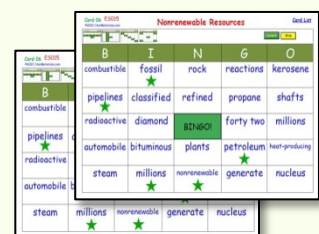
Dictionary Drills (.pdf)  
Use Guide Words to place work in question.

## Free I-Cloze\* Readings



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

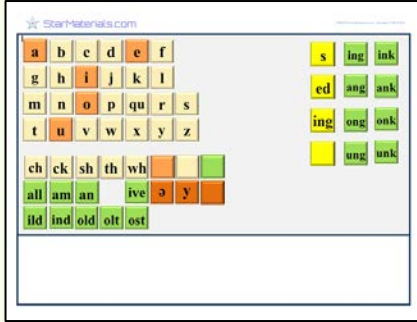
## Free I-BINGO\* Review



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

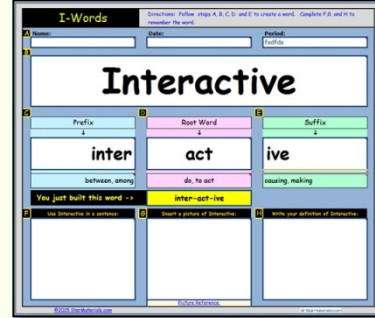
\*Interactive lessons for printout on Paper or use with iPad®, iPod®, Kindle®, Chromebook®, Laptop, SMART® board or other devices.

## I-Wilson® Reading Tiles\*



Move letter tiles on screen. (.doc)  
for teaching Wilson® steps 1 through 6.

## I-Words\*



Construct words and make posters (xlsx)  
Use drop down lists for prefix, roots and suffix.

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Thanks!

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