GRADE 1 LEARNING EXPERIENCE What is it Made of?

Summary

Learners will determine the properties of everyday objects through a variety of hands-on activities. Students will use this information to help them understand how recycling works through a "cut and paste" activity.

Objective

To teach the difference between plastic, metal and organic objects and to help students sort waste materials properly.

Pre-Activity WHAT ARE THINGS MADE OF?

DIRECTIONS

INTRODUCTION

MATERIALS

Whiteboard and markers

DURATION

MATERIALS

Appendix 1

Game (PDF

slide show)

Computer

and projector

Guessing

10 mins

Write the question "What **STUFF** are **THINGS** made of?" on the board. After a brief discussion, ask students to share their responses.

Rewrite the question to read "What **MATERIALS** are **OBJECTS** made of?" Explain that scientists say MATERIAL instead of "stuff" and OBJECTS instead of "things."

Now that they know the correct terms, review some examples of some **materials** that **objects** are made of. As students answer, display their words on the board. Examples: wood, glass, metal, plastic, rubber, paper, etc.

OPTION Students can play the **What Things are Made of Hangman Game** online at: <u>www.eslgamesplus.com/whats-it-made-of-passive-voice-</u> product-materials-esl-hangman/

GUESSING GAME

Show the **"Guessing Game" slide show (Appendix 1 – PDF file).** As each slide is shown, ask students to guess the material(s) they think the object is made of.

Note: An answer slide follows each quiz question slide.

MAIN LEARNING OUTCOME



SUBJECTS:

Science

Learners will construct a device in response to a problem.

SKILLS

Investigate Ask a question; locate 4–5 obvious details to support an answer; communicate findings.

Evaluate

Review steps and results from an investigation or problem solving; Reflect on and communicate solutions or findings.

CROSS-CURRICULAR LINKS

Social Studies

Learners will implement age-appropriate actions for responsible behaviour in caring for the environment.

SKILLS

Investigate Ask a question; locate 4–5 obvious details to support an answer; communicate findings.

English Language Arts



Writing & Representing Learners will convey meaning by creating print and digital texts collaboratively and independently using imagination, personal experiences, and feelings.

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Activity BOARD GAME

DIRECTIONS

Put students in groups of three to play the **"What is it Made of?" board game (Appendix 2).** Print one copy of the game for each group.

Each student takes a turn rolling the dice. They move forward the number of squares they rolled. Whatever object they land on, they need to say what material it is made of. (See board game for more detailed instructions.)

Post-Activity CUT & PASTE THE RECYCLABLES

DIRECTIONS

Have the students complete the activity **Cut and Paste Recyclables** (Appendix 3).

They must cut out the materials words (plastic, paper, metal, glass, rubber) and place them in the correct blank to complete the sentences.

OPTION Students can write the correct answers in the blanks to make the activity more challenging.

Assessment

FORMATIVEEvaluate student learning by observing their answers during the
presentation, the board game and the cut and paste activity.

SUMMATIVE Collect and evaluate the cut and paste activity.



Divert NS is a not-for-profit organization championing recycling in Nova Scotia. For over 20 years we've helped build a culture of recycling through environmental stewardship, education, and innovation. Divert NS operates the Beverage Container Deposit-Refund Program and the Used Tire Management Program. In addition, we work in collaboration with government, industry, and academia to divert waste-resources from landfill. Divert NS, in partnership with municipalities, delivers education and awareness programs to schools, businesses, and community groups. Divert NS also works to develop stewardship agreements and funds innovative research and development initiatives. We welcome feedback from students and teachers on these lesson plans and resources. Please send your feedback to:

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MATERIALS

Appendix 2: Print-outs of Board Game

Game pieces and one die for each group

DURATION 20 min

MATERIALS

Appendix 3: Cut and Paste Recyclables activity

DURATION

5 min

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APPENDIX 1 What is it made of?

Guessing Game

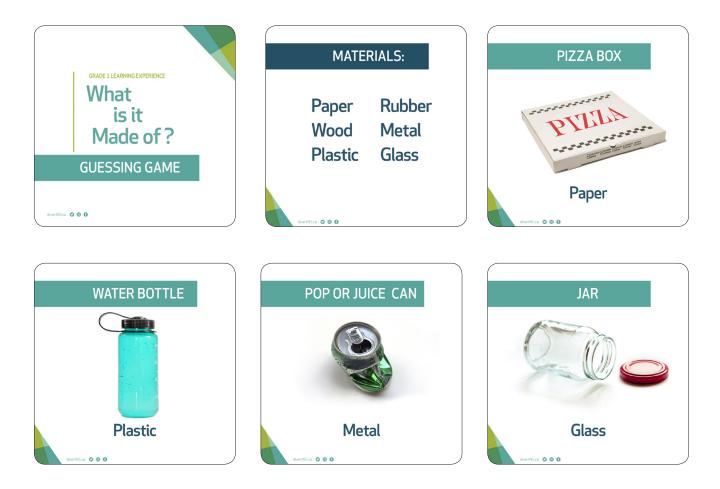
Answer key

PRESENTATION OVERVIEW

The following are the **answer slides** for the What is it Made of? guessing game presentation. Each answer slide is preceded by the quiz slide (See sample quiz slide, right)

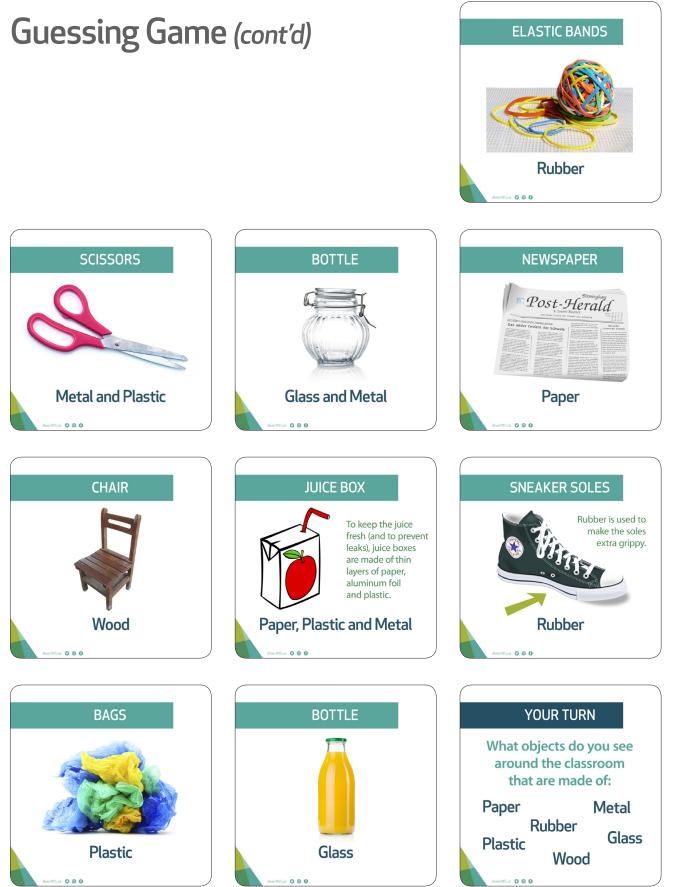
For full guessing game, see GR-1-What is-it-Made-of-Appx1-Guessing.pdf





(cont'd on next page)

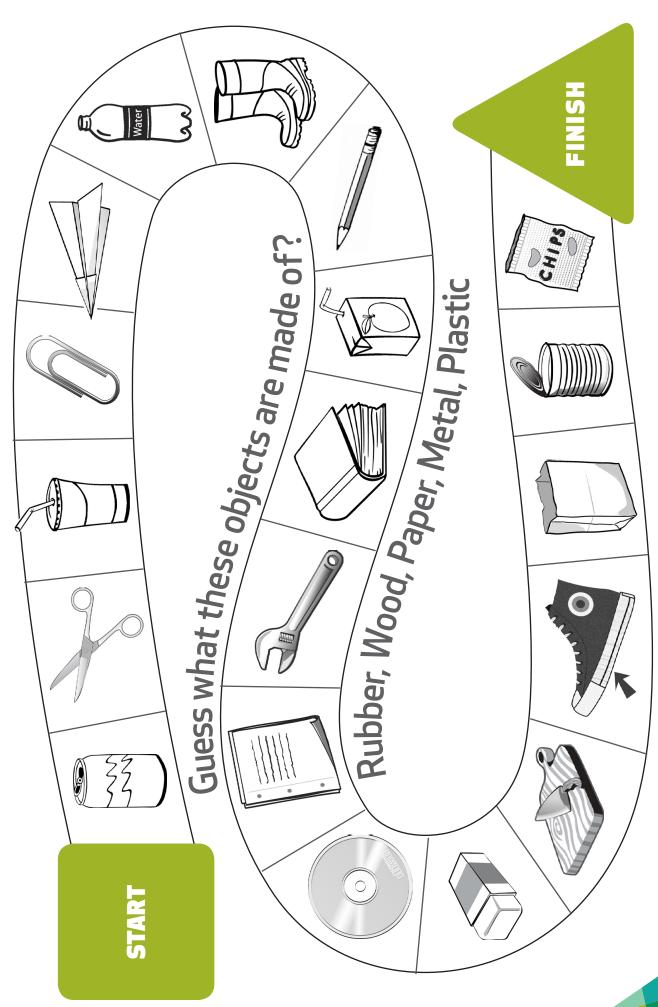
APPENDIX 1 What is it made of?



APPENDIX 2: WHAT IS IT MADE OF? Board Game

Each player rolls the die, and moves forward that number of spaces. Whatever **object** they land on, they say what **material** is it made of.

If the student guesses correctly, the die is passed to the next player. If the guess is incorrect, the student rolls again, this time moving **backwards** that number of spaces. The die is then passed to the next player.



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Name _____

Cut and Paste Recyclables

Cut out the MATERIAL WORDS below, and glue ONE into each sentence to complete it correctly.

1.0b	jects made of	, like pop bottles , can be recycle	d.
±. 00	jeees maae or		<i>.</i> . .

2. Objects made of_______, like **jam and pickle jars**, can be recycled.

3. Objects made of______, like **car and truck tires**, can be recycled.

4. Objects made of _______, like **magazines**, can be recycled.

5. Objects made of______, like **juice cans**, can be recycled.



GRADE 1 LEARNING EXPERIENCE What is it Made of ?

GUESSING GAME



MATERIALS:

PaperRubberWoodMetalPlasticGlass



PIZZA BOX



PIZZA BOX



Paper



WATER BOTTLE





WATER BOTTLE



Plastic



POP OR JUICE CAN







POP OR JUICE CAN



Metal















Glass



ELASTIC BANDS







ELASTIC BANDS



Rubber



SCISSORS







SCISSORS



Metal and Plastic

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BOTTLE



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BOTTLE



Glass and Metal



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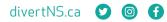
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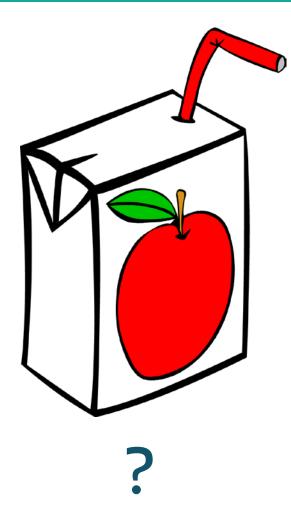
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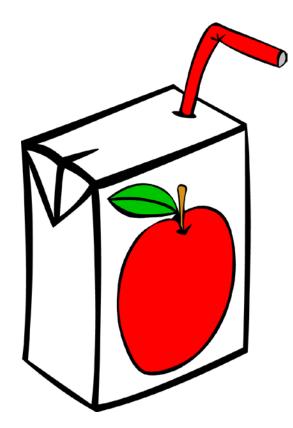


JUICE BOX





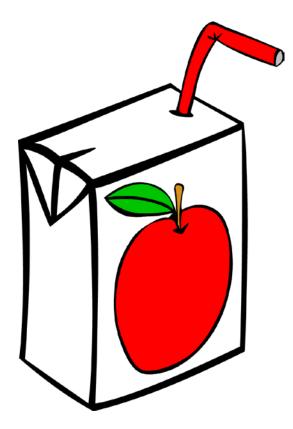
JUICE BOX



Paper, Plastic and Metal

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JUICE BOX



To keep the juice fresh (and to prevent leaks), juice boxes are made of thin layers of paper, aluminum foil and plastic.

Paper, Plastic and Metal

SNEAKER SOLES



SNEAKER SOLES



Rubber















Plastic



BOTTLE





BOTTLE



Glass



YOUR TURN

What objects do you see around the classroom that are made of:

Paper Metal Rubber Plastic Wood