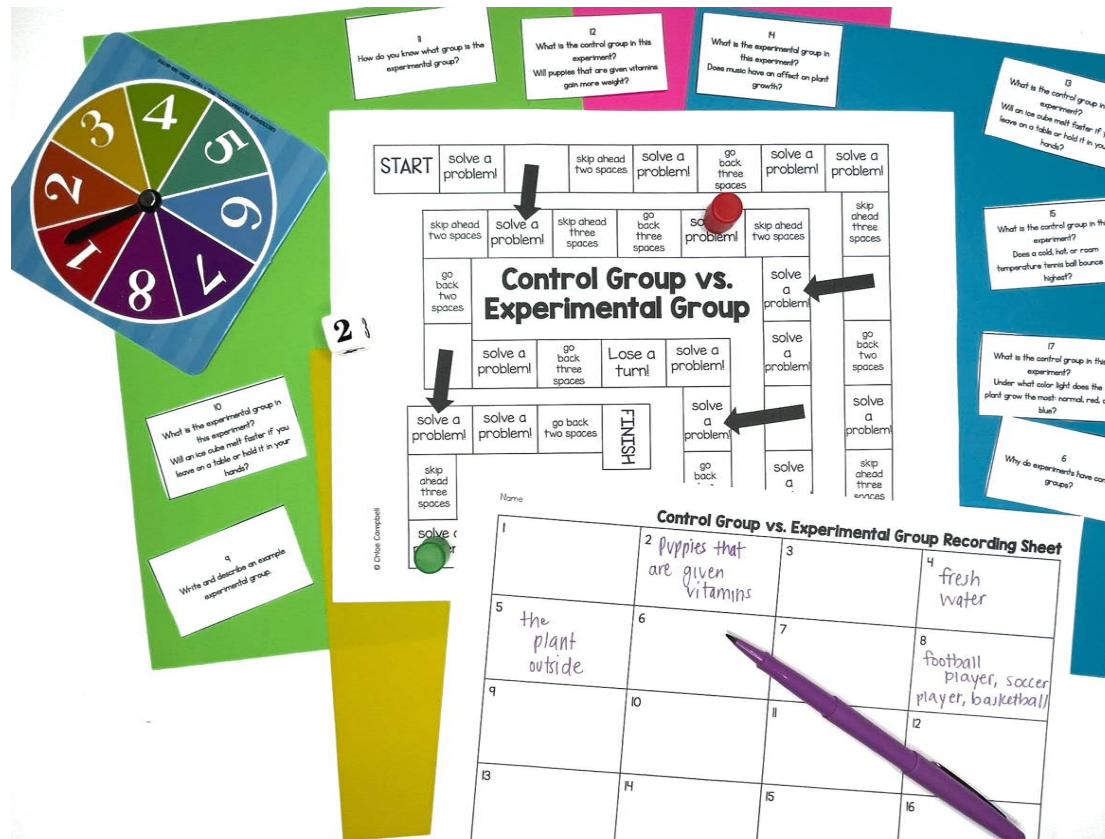# Struggling to find a hands-on way to review science skills: control group vs. experimental group?
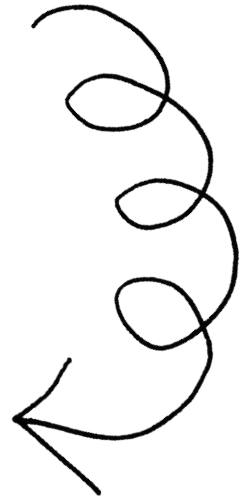
Don't spend any more time planning, searching, or brainstorming. Everything you need is in this easy to use download!
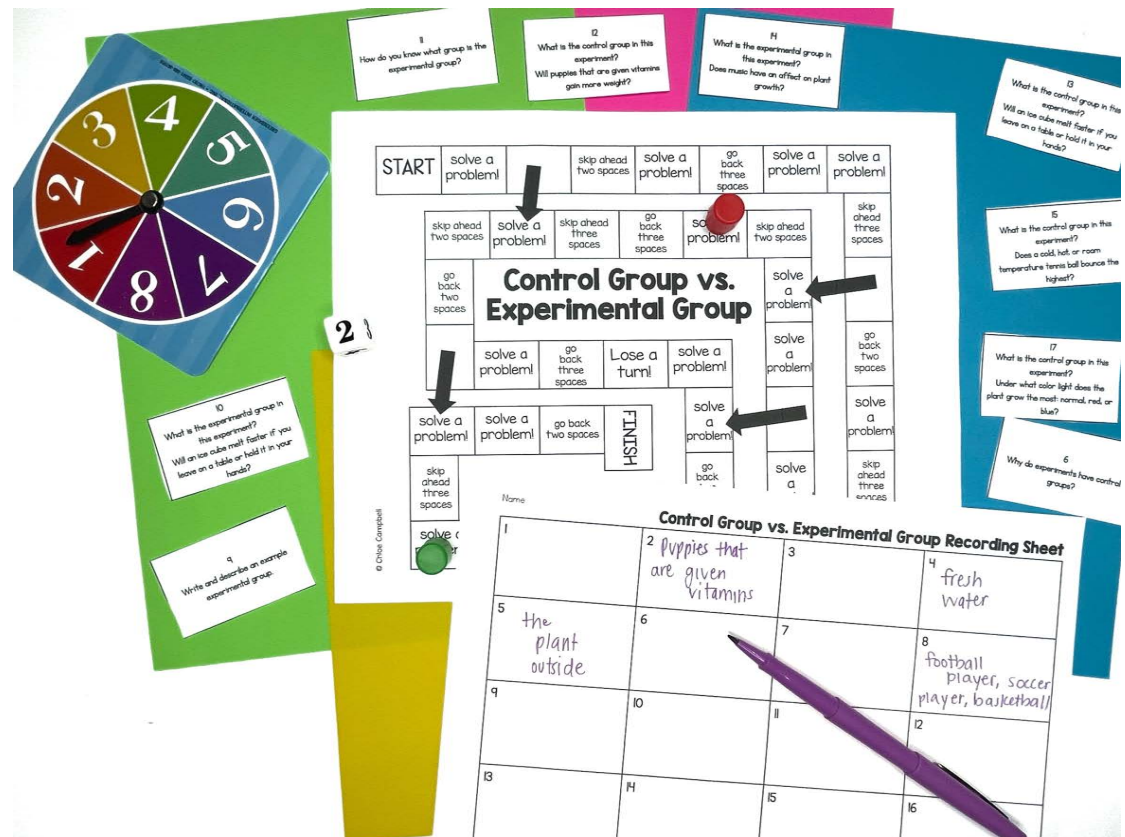
WHAT'S INCLUDED?

In Every Activity:

- Teacher Tips

- Student Directions

- Science Game Board

- 20 Question Cards

- Student Recording Sheet
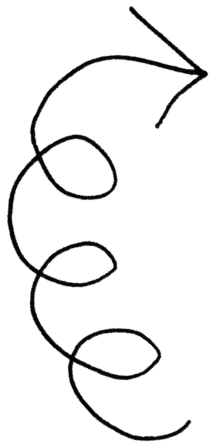
- Answer Key

SCIENCE BOARD GAMES

How to Use:

1. Print recording sheets, board games, student directions, and question cards.

2. Cut out the question cards.

3. Students will play the game and answer the science questions they play.

Teacher Tips

- Read the directions to the students and model how to play.
- Be prepared with dice/spinner and game pieces for each player (paperclips, pencil top erasers, pieces from another game, etc.)
- Every student should solve every problem – not just the person who

DIRECTIONS

You'll need a dice or a spinner for each game board and a game piece for each player.

The person whose name comes first in alphabetical order will play first in the game. Roll the die and move that number of spaces on the game board. Each person will answer the problem on their own recording sheet. Everyone will double check their answers with each other. If you have the same correct answers, the next person should roll the die. If you have different answers, discuss with the other players. Use your textbook, notes, charts, etc. to help prove your answer. Then the next player may go.

*If you land on a space with an arrow, you must ___ problem before moving to the next space ___ rly play the game again.

Teacher Tips and Student Directions!

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Control Group vs. Experimental Group

Game board spaces:

START | solve a problem! | skip ahead two spaces | solve a problem! | go back three spaces | solve a problem! | solve a problem!

skip ahead two spaces | solve a problem! | skip ahead three spaces | go back three spaces | solve a problem! | skip ahead two spaces | skip ahead three spaces

go back two spaces | solve a problem! | go back two spaces

solve a problem! | go back three spaces | Lose a turn! | solve a problem! | solve a problem!

solve a problem! | go back two spaces | FINISH | solve a problem! | solve a problem! | skip ahead three spaces

skip ahead | solve a problem! | go back three | solve a problem! | skip ahead two spaces | solve a problem! | go back two spaces | solve a problem! | solve a problem!

Question cards:

11
How do you know what group is the experimental group?

12
What is the control group in this experiment?
Will puppies that are given vitamins gain more weight?

14
What is the experimental group in this experiment?
Does music have an affect on plant growth?

13
What is the control group in this experiment?
Will an ice cube melt faster if you leave on a table or hold it in your hands?

15
What is the control group in this experiment?
Does a cold, hot, or room temperature tennis ball bounce highest?

17
What is the control group in this experiment?
Under what color light does a plant grow the most: normal, blue?

6
Why do experiments have control groups?

Students won't even realize they are learning!

11
How do you know what group is the experimental group?

12
What is the control group in this experiment?
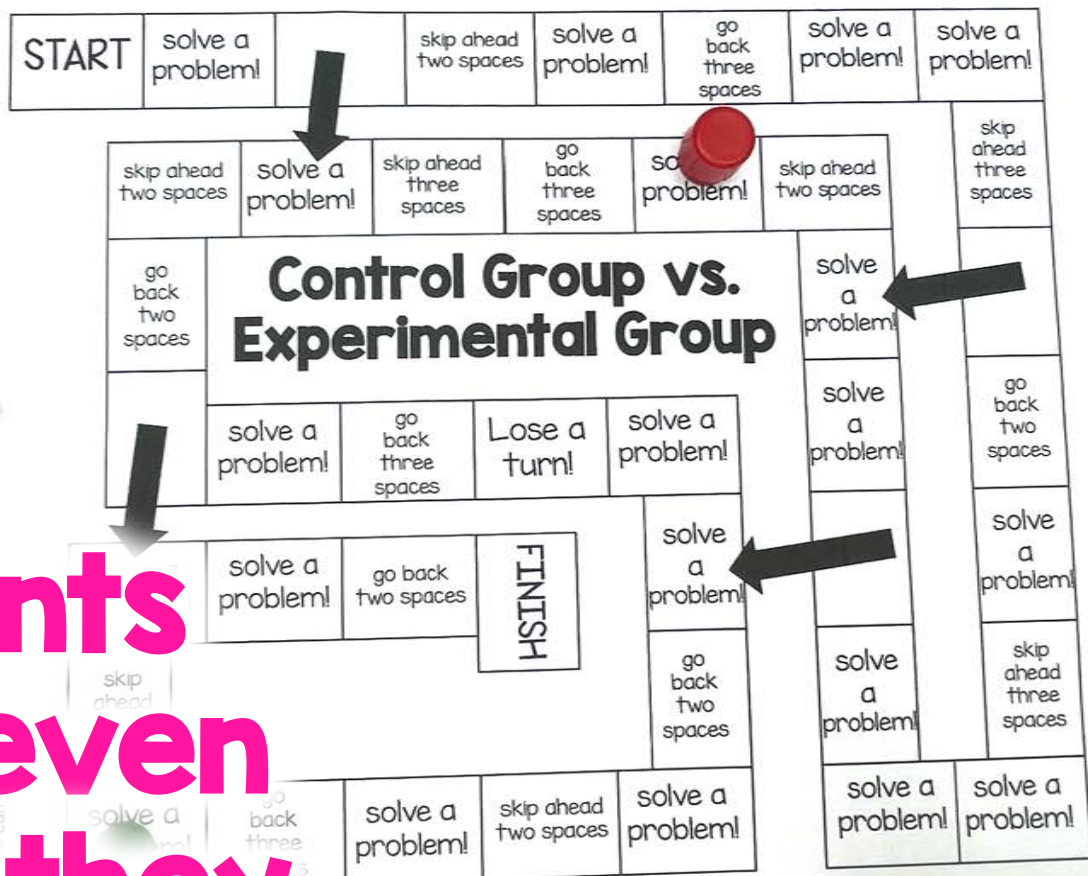Will puppies that are given vitamins gain more weight?

14
What is the experimental group in this experiment?
Does music have an affect on plant growth?

13
What is the control group in this experiment?
Will an ice cube melt faster if you leave on a table or hold it in your hands?

1
What is an experimental group?

8
What is the experimental group in this experiment?
Which person can run the fastest: a non-athlete, a football player, a soccer player, or a basketball player?

2
What is the experimental group in this experiment?
Will puppies that are given vitamins gain more weight?

5
What is the control group in this experiment?
Which plant will grow fastest: one in the refrigerator, one in the closet, or the one outside?

15
What is the control group in this experiment?
Does a cold, hot, or room temperature tennis ball bounce the highest?

3
Write and describe an example control group.

19
What is the experimental group in this experiment?
Does a cold, hot, or room temperature tennis ball bounce the highest?

7
What is a control group?

17
What is the control group in this experiment?
Under what color light does the plant grow the most: normal, red, or blue?

10
What is the experimental group in this experiment?
Will an ice cube melt faster if you leave on a table or hold it in your hands?

20
What is the experimental group in this experiment?
Under what color light does the plant grow the most: normal, red, or blue?

4
What is the control group in this experiment?
Which plant grows the fastest: the one given fresh water or salt water?

6
Why do experiments have control groups?

16
How do you know what group is the control group?

Write and describe an example experimental group.

Does music have an affect on plant growth?

20 questions with every game!

IDEAS FOR USE

- Science centers or stations
- Whole group practice
- Morning work
- Early finisher activities
- Substitutes
- Send home to engage students' families
- Test prep or end of unit review

RECORDING SHEET INCLUDED!

Easy way to hold students accountable

solve a problem!

Group vs. ntal Group

go back three spaces

Lose a turn!

solve a problem!

solve a problem!

solve a problem!

go back two spaces

go back two spaces

FINISH

solve a problem!

solve a problem!

go back

solve a

skip ahead three

Does a cold, hot, or room temperature tennis ball bounce the highest?

17
What is the control group in this experiment?
Under what color light does the plant grow the most: normal, red, or blue?

6
Why do experiments have control groups?

10
the experimental group in this experiment?
Ice cube m... if you on a table or hand...

9
escribe an example mental group.

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Control Group vs. Experimental Group Recording Sheet

1	2 Puppies that are given vitamins	3	4 fresh water
5 the plant outside	6	7	8 football player, soccer player, basketball
9	10	11	12
13	14	15	16
	18	19	20

PURCHASE NOW TO INCREASE STUDENT ENGAGEMENT!

"What a way to engage students!"

"My kids love these!"

"Great Product. Love hands-on learning!"

"Easy to use, my students enjoyed this resource!"

Spinner numbers: 2 3 4 5 6 7 8 1

Dice: 2 3

Game cards:

11
How do you know what group is the experimental group?

12
What is the control group in this experiment?
Will puppies that are given vitamins gain more weight?

14
What is the experimental group in this experiment?
Does music have an affect on plant growth?

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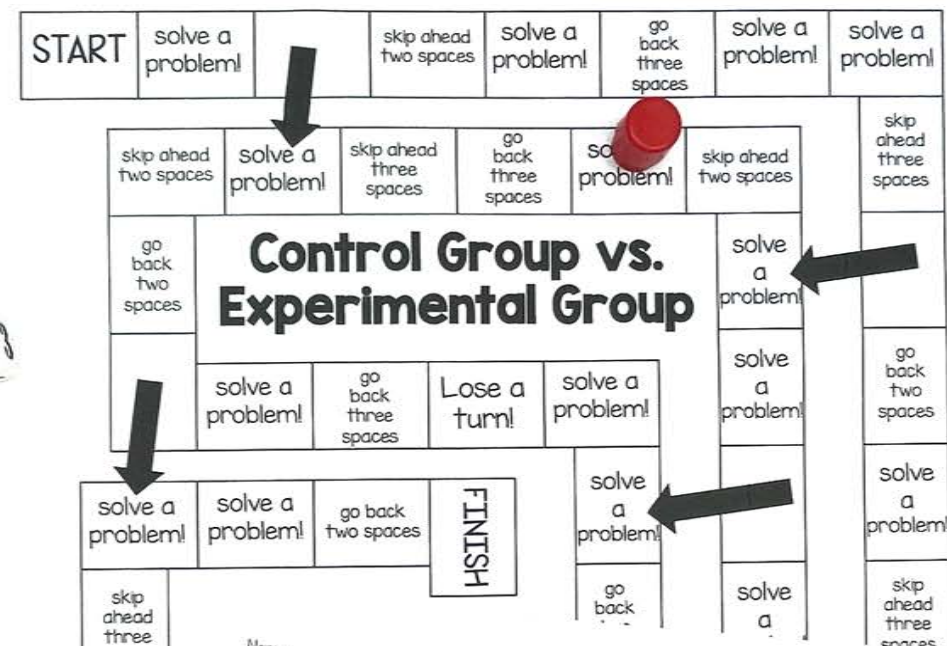Will an ice cube melt faster if you leave on a table or hold it in your hands?

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Why do experiments have control groups?

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What is the experimental group in this experiment?
Will an ice cube melt faster if you leave on a table or hold it in your hands?

9
Write and describe an example experimental group.

Game board:

START | solve a problem! | | skip ahead two spaces | solve a problem! | go back three spaces | solve a problem! | solve a problem!

skip ahead two spaces | solve a problem! | skip ahead three spaces | go back three spaces | solve a problem! | skip ahead two spaces | skip ahead three spaces

go back two spaces

Control Group vs. Experimental Group

solve a problem!

solve a problem! | go back three spaces | Lose a turn! | solve a problem!

solve a problem! | go back two spaces

solve a problem! | solve a problem! | go back two spaces | FINISH | solve a problem! | solve a problem!

skip ahead three spaces | go back | solve a | skip ahead three spaces

solve a problem!

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Recording sheet:

Name

Control Group vs. Experimental Group Recording Sheet

| 1 | 2 Puppies that are given vitamins | 3 | 4 fresh water |
| 5 the plant outside | 6 | 7 | 8 football player, ... |

Banner text:

Just add game pieces and a dice or spinner to play.

Control Group vs. Experimental Group

Game board spaces: START, solve a problem!, skip ahead two spaces, go back three spaces, skip ahead three spaces, go back two spaces, Lose a turn!, FINISH, skip ahead three spaces

Question cards:

11 — How do you know what group is the experimental group?

12 — What is the control group in this experiment? Will puppies that are given vitamins gain more weight?

14 — What is the experimental group in this experiment? Does music have an affect on plant growth?

13 — What is the control group in experiment? Will an ice cube melt faster if leave on a table or hold it in your hands?

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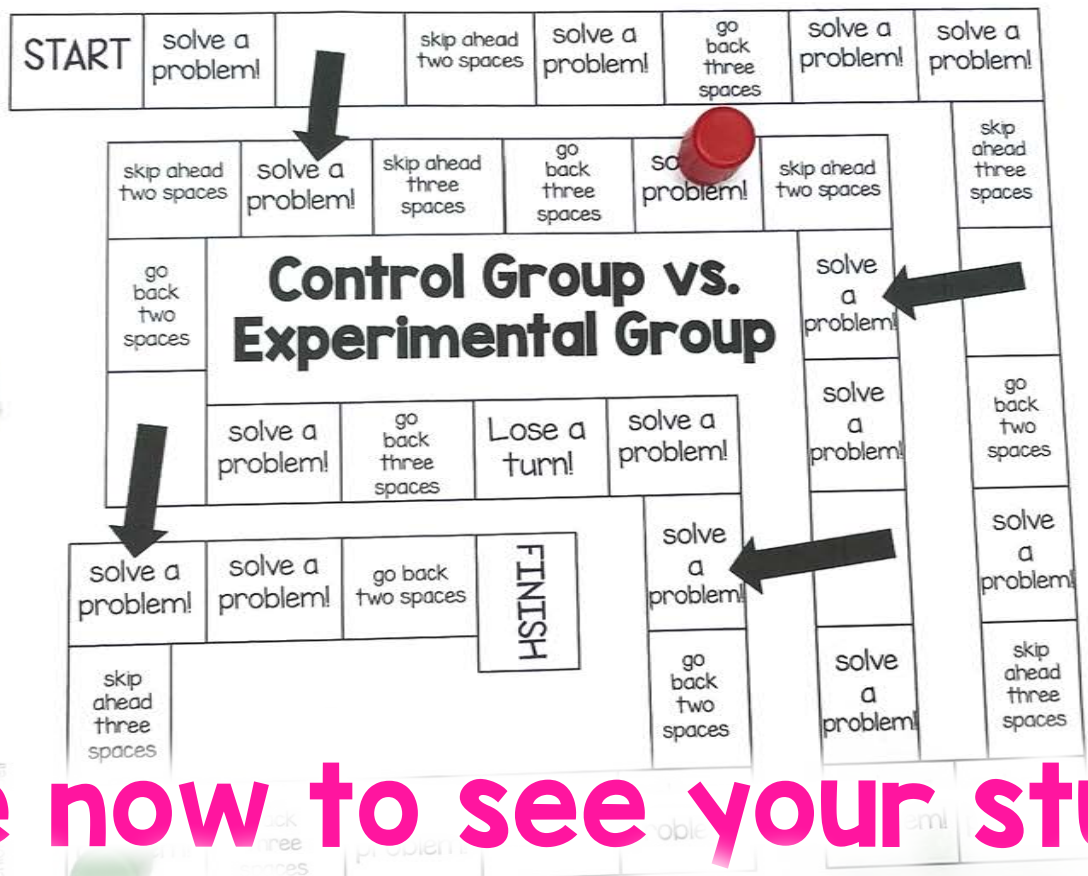
6 — Why do experiments have groups?

10 — What is the experimental group in this experiment? Will an ice cube melt faster if you leave on a table or hold it in your hands?

Purchase now to see your students engaged while practicing science skills!

START | solve a problem!

skip ahead two spaces | solve a problem! | solve a problem!

back three spaces | problem! | problem!

skip ahead three spaces

skip ahead two spaces | solve a problem! | skip ahead three spaces | go back three spaces | solve a problem! | skip ahead two spaces

Will it Dissolve in Water?

solve a problem!

go back two spaces

solve

go

START | solve a problem!

skip ahead two spaces | solve a problem! | go back three spaces | solve a problem! | solve a problem!

skip ahead two spaces | solve a problem! | skip ahead three spaces | go back three spaces | solve a problem! | skip ahead two spaces

sp

Weather

solve a problem!

go back two spaces

solve a problem!

START | solve a problem!

skip ahead two spaces | solve a problem! | go back three spaces | solve a problem! | solve a problem!

skip ahead two spaces | solve a problem! | skip ahead three spaces | go back three spaces | solve a problem! | skip ahead two spaces | skip ahead three spaces

Experiment vs. Investigation

solve a problem!

go back two spaces

solve a problem!

go back two spaces

solve a problem! | go back three spaces | Lose a turn! | solve a problem!

solve

Check out the entire BUNDLE of science games!