



FIELD TRIP DAY

MARCH 4, 2020

GAMES CAN BE A GREAT WAY TO PASS TIME WHILE RIDING ON A BUS

MATH, STRATEGY AND FINGERS—IT'S A GAME CALLED STICKS!

Variations of this game have been around for a long time, so you may have played a version of this game by a different name.

HOW TO PLAY:

- 1** Grab a friend! You need two people to play this game. Both players start with one finger on each hand pointed out.
- 2** To play, tap one of your hands to one of your opponent's hands. The number of fingers out on your hand is the number of additional fingers the opposing player has to put out on the hand you tap. For example, if you have one finger extended and the hand you tap on your opponent has two, your opponent adds your one to the two already held out and then holds out the total, in this case, three fingers.
- 3** Take turns tapping hands. Remember only the hand that taps can change the number of pointed fingers on the other player's hands. If a player ends up with five extended fingers on one hand, that hand is considered "out." The game is over when both hands on one player are "out." To get a player to five pointed fingers and "out," their opponent must tap them with exactly the right amount of fingers to get them to five. If their hand is tapped with too many fingers, their hand simply "rolls over," and they point only the number of fingers that they would have had over five. Once you have mastered this version, try adding this challenge: If a player has an even amount of fingers pointed on both of their hands, they can tap their hands together to move pointed fingers from one hand to the other. This can be done only before their turn, and only when they have an even amount of fingers pointed on both hands. This is called a "split," and can be used to tag back in a hand that is "out." This does not count as a turn.

As you begin to understand the game better, add more rules.
You can even add more players.





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STEM WORD SEARCH

O S F P O L L I N A T E A Z K W E Z
V X O H R T C M A Z U I H P V H C R
E D O D M P O D B T Z S O L A R O X
G E D C L I M A T E M I F W H W S H
E C C L X X P O V F B O U N C E Y W
T O H J I N O B U G S G S Y R A S I
A M A C O N S U M E R K P P J T T N
T P I B A C T E R I A G T R H H E D
I O N B I O D E G R A D A B L E M D
O S S U S T A I N A B L E E J R R Q
N E L P O W E R J H Q F U E L F M E
E R O D E C O N S E R V E D Q G M R

Find the following words in the puzzle.

atmosphere
bacteria
biodegradable
bounce
bugs
climate
compost
conserve

consume
decompose
ecosystem
erode
food chain
fuel
pollinate

power
solar
sustainable
vegetation
weather
wind



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SOLUTION

. . F P O L L I N A T E . . . E .
V . O . . . C . A C .
E D O . . . O . . T . S O L A R O .
G E D C L I M A T E M . . . W S .
E C C . . . P . . . B O U N C E Y W
T O H . . . O B U G S . S . . A S I
A M A C O N S U M E . . . P . T T N
T P I B A C T E R I A . . . H H E D
I O N B I O D E G R A D A B L E M .
O S S U S T A I N A B L E . . R R .
N E . P O W E R . . . F U E L . . E
E R O D E C O N S E R V E



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PERIODIC TABLE SEEK AND SINK GAME

- 1** Grab a friend – you need two people to play this game.
- 2** Place your “ships” by drawing a line through elements using the information below. Make sure your opponent can’t see your table!
- 3** Decide who will go first.
- 4** The first player calls out an atomic number (the number in the top left of each box) or the chemical symbol (the one, two or three letters located in the center of the box and used to signify the element). The other player says “success” if they have part of a ship in that box, or “miss” if there are no ships in that box.
- 5** Use “O’s” to mark successes and “X’s” to mark misses on the top periodic table.
- 6** When all of the elements, or boxes, of a “ship” are hit, the player must declare it sunk.
- 7** The first player to sink all of the other player’s ships wins!

LOOK FOR YOUR OPPONENT'S "SHIPS":

1 2-element ship | 2 3-element ships | 1 4-element ship | 1 5-element ship

Ships can be horizontal or vertical but they can't be diagonal.
Your mission: Find all of your opponent's ships before yours are found!

Use "O's" to mark successes. Use "X's" to mark misses.

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Li ³ LITHIUM	Be ⁴ BERYLLIUM											B ⁵ BORON	C ⁶ CARBON	N ⁷ NITROGEN	O ⁸ OXYGEN	F ⁹ FLUORINE	Ne ¹⁰ NEON																														
Na ¹¹ SODIUM	Mg ¹² MAGNESIUM											Al ¹³ ALUMINIUM	Si ¹⁴ SILICON	P ¹⁵ PHOSPHORUS	S ¹⁶ SULFUR	Cl ¹⁷ CHLORINE	Ar ¹⁸ ARGON																														
K ¹⁹ POTASSIUM	Ca ²⁰ CALCIUM	Sc ²¹ SCANDIUM	Ti ²² TITANIUM	V ²³ VANADIUM	Cr ²⁴ CHROMIUM	Mn ²⁵ MANGANESE	Fe ²⁶ IRON	Co ²⁷ COBALT	Ni ²⁸ NICKEL	Cu ²⁹ COPPER	Zn ³⁰ ZINC	Ga ³¹ GALLIUM	Ge ³² GERMANIUM	As ³³ ARSENIC	Se ³⁴ SELENIUM	Br ³⁵ BROMINE	Kr ³⁶ KRYPTON																														
Rb ³⁷ RUBIDIUM	Sr ³⁸ STRONTIUM	Y ³⁹ YTRIUM	Zr ⁴⁰ ZIRCONIUM	Nb ⁴¹ NIOBIUM	Mo ⁴² MOLYBDENUM	Tc ⁴³ TECHNETIUM	Ru ⁴⁴ RUTHENIUM	Rh ⁴⁵ RHODIUM	Pd ⁴⁶ PALLADIUM	Ag ⁴⁷ SILVER	Cd ⁴⁸ CADMIUM	In ⁴⁹ INDIUM	Sn ⁵⁰ TIN	Sb ⁵¹ ANTIMONY	Te ⁵² TELLURIUM	I ⁵³ IODINE	Xe ⁵⁴ XENON																														
Cs ⁵⁵ CAESIUM	Ba ⁵⁶ BARIUM		Hf ⁷² HAFNIUM	Ta ⁷³ TANTALUM	W ⁷⁴ TUNGSTEN	Re ⁷⁵ RHENIUM	Os ⁷⁶ OSMIUM	Ir ⁷⁷ IRIDIUM	Pt ⁷⁸ PLATINUM	Au ⁷⁹ GOLD	Hg ⁸⁰ MERCURY	Tl ⁸¹ THALLIUM	Pb ⁸² LEAD	Bi ⁸³ BISMUTH	Po ⁸⁴ POLONIUM	At ⁸⁵ ASTATINE	Rn ⁸⁶ RADON																														
Li ⁸⁷ LITHIUM	Ra ⁸⁸ RADIUM		Rf ¹⁰⁴ RUTHERFORDIUM	Db ¹⁰⁵ DUBNIUM	Sg ¹⁰⁶ SEABORGIUM	Bh ¹⁰⁷ BOHRIUM	Hs ¹⁰⁸ HASSIUM	Mt ¹⁰⁹ MEITNERIUM	Ds ¹¹⁰ DARMSTADTIUM	Rg ¹¹¹ ROENTGENIUM	Cn ¹¹² COPERNICIUM	Uu ¹¹³ UNUNTRIUM	Fl ¹¹⁴ FLEROVIUM	Uup ¹¹⁵ UNUNPENTIUM	Po ¹¹⁶ POLONIUM	Uuq ¹¹⁷ UNUNSEPTIUM	Uuo ¹¹⁸ XENON																														
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