



STWS

Genetics BINGO
(University of
Utah)

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U of Utah: Genetics
Science Learning Center

This activity can
be found @
<https://teach.genetics.utah.edu/>



Genetic Science  Learning Center

Genetics BINGO

What's about to happen?!

- 1) Intro/ Lead-In Discussion
- 2) BINGO
 - Setup
 - Play
- 3) Follow-up Ideas



Introduction



The purpose of this activity is to help start the conversation on genetics and heredity. It focuses on external, observable traits.

Lead-In Discussion Ideas

- What are traits?
- What are genes?
- Where do your genes come from?
 - Touch on traits from the list without explicit attention to them.
 - Ask about fun/favorite/unique traits.

* Ask about student generated ideas for Step 1.

BINGO!!

Setup and Gameplay



BINGO!!

Step 1: Create Game Board

- 1) Create a list of a combination of relationships (e.g. parent, aunt, sibling) and traits (see provided BINGO sheets for some examples).
 - You should have a total at least 24 traits and relationships, combined.
 - Feel free to make more for variability.
 - Have the students submit traits.
 - You create the entire list.
 - Optional: PTC
- 2) Have the students construct a BINGO board using the traits and relationships and a FREE space.
 - Students can use words and/or pictures.
 - Student can use items or cut up bits to mark off their board if they want to reuse them.

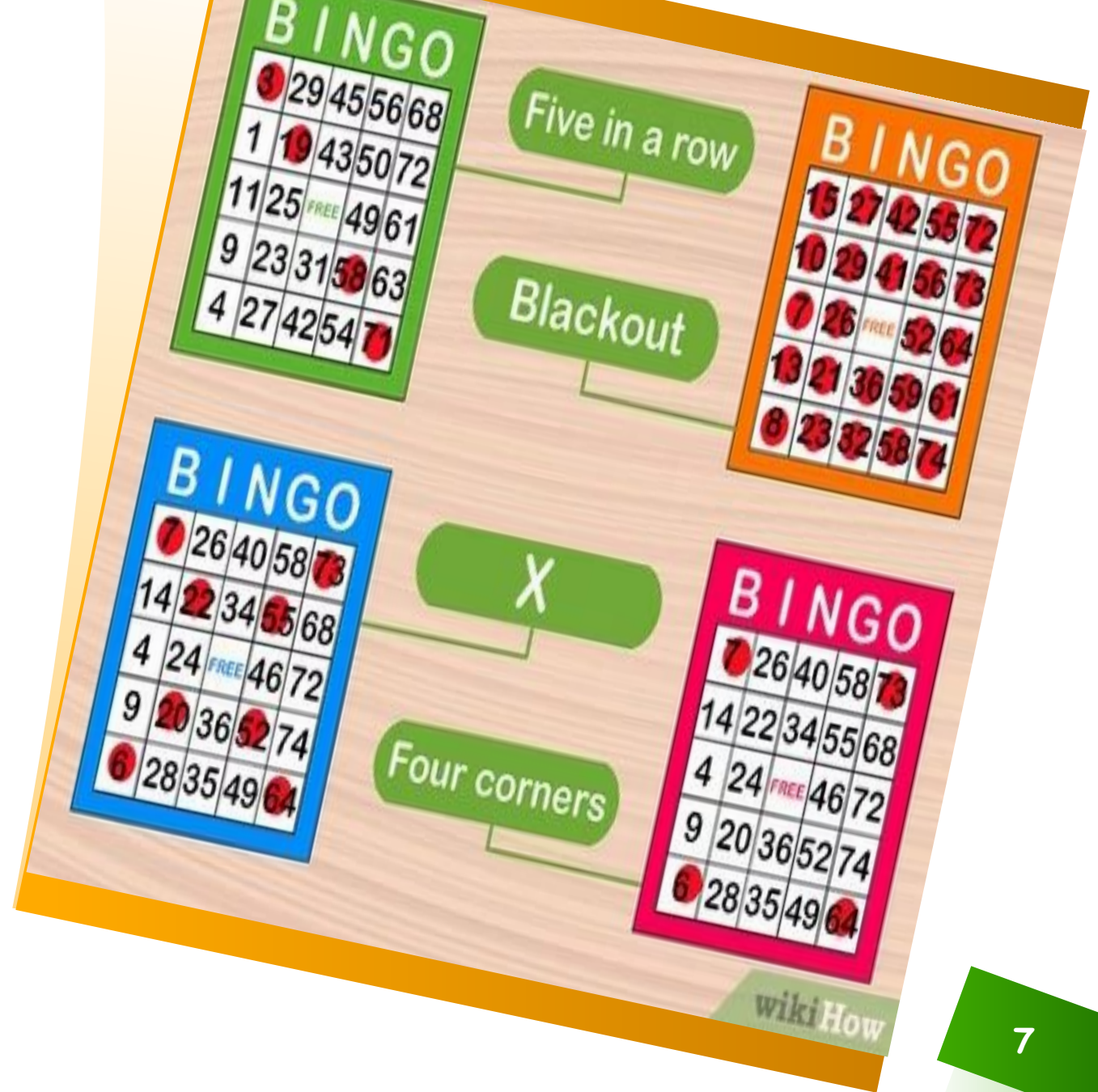


BINGO!!

Step 2: Game Play

Use the "BINGO QUESTIONS" sheet to run through as many rounds as you choose!

- Traditional, 4-corners, blackout
- Use your own prompts and follow-ups



















Extension Activities

Inherited or Learned (Acquired)?

- 1) Allow students to use a trait bank of acquired and inherited traits to fill in their BINGO board
- 2) To win, they have to be able to say whether it's inherited or acquired
- 3) To win, you have to have 5 acquired traits marked off (or 5 inherited)

Possible Homework Assignment:

- 1) Think of a trait that you have.
- 2) Did you inherit it or learn/acquire it?
- 3) How do you know?

Inherited Traits	Learned Behaviors		
A characteristic passed down from parents to offspring	A behavior that must be learned and is not passed down through parents		
 hair color	 eye color	 riding a bicycle	 rolling over on command
 leaf shape	 hibernating	 reading books	 playing basketball
 Spines on a cactus	 attached earlobes	 eating with silverware	 speaking English
 height	 flower color	 cooking	 playing guitar

Continuing Genetics

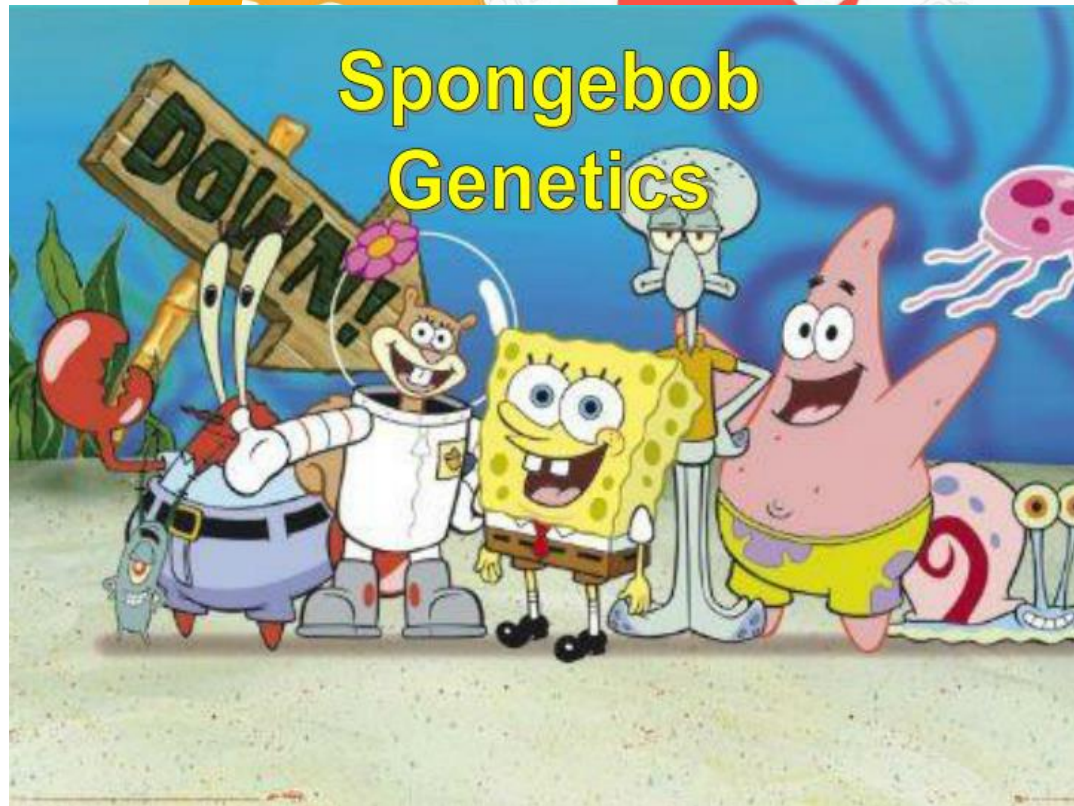
More ways to play and additional activities!!

- Play with your family and friends!
- Answer based on someone else!
- Discover new traits and make new boards!

Try these activities that can be found at:

<https://smile.oregonstate.edu/summer-2019-teacher-workshop> under *Elementary - Genetics*.

- SpongeBob Genetics
- Alien Genetics





Thank You!

Precollege Programs

Questions or comments?

Contact:

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