



World Fusion Homeschool Lesson Plan

Raddish Lesson Plan Road Map

We design these lessons to be adaptable and flexible to your students and your life. You can do A Little Taste in ~45 minutes, or you can use the extension activities and make the projects and activities listed last over several lessons or even weeks. The lessons are meant to be interdisciplinary, covering many subject areas at once. Students of all ages can use these materials, with learners who are pre-writers able to draw or verbally share responses.

If desired, you could extend these lessons into a project-based learning unit of study, where students tackle a real world problem and create solutions. The learning happens in the process of getting to the presentation of the solution, and students often find it more meaningful when they are investigating a topic of their choice.

For a deeper look at the topic, A Big Bite offers extension ideas for learners who are able to read, write, and think on a higher level.

We always love to see your finished projects! You can share them in our Facebook group, [The Raddish Table](#), or email us hello@raddishkids.com.

Driving Questions: What are hybrid animals, and how do they occur?

A Little Taste

Resource List

Background Information (also linked within lesson)

- *The Tigon and the Liger*, picture book by Kelly Swift, <https://bookshop.org/books/the-tigon-and-the-liger/9781911373162>
- *The Tigon and the Liger* | Maggie Reads |Children’s Books Read Aloud!, video read aloud from Maggie Grace TV!, <https://www.youtube.com/watch?v=NLgN0vVW8uY>
- Lions, Tigers and Ligers!, video <https://www.youtube.com/watch?v=vybfyhYK-m0>
- <https://www.whalefacts.org/wholphin/>
- 10 Awesome Hybrid Animals That Actually Exist, video from Top 5 Best, <https://www.youtube.com/watch?v=JarGdMEQEIo>
- “The mixed-up world of hybrid animals”, article by Roberta Kwok, from Science News for Kids, <https://www.sciencenewsforstudents.org/article/mixed-world-hybrid-animals>
- “Amazing! 12 Types of Hybrid Animals That Actually Exist”, article from AZ Animals, <https://a-z-animals.com/blog/12-hybrid-animals-that-are-actually-real/>

Optional Extensions

- *Scranimals*, picture book by Jack Prelutsky, <https://bookshop.org/books/scranimals/9780060753689>
- Imagine U Storytime | Scranimals with Jack Owen (‘22), video read-aloud from The Wirtz Center, <https://www.youtube.com/watch?v=l-ODnP5FogQ>
- “11 Odd Hybrid Fruits and Vegetables”, article from Mental Floss, <https://www.mentalfloss.com/article/53101/11-odd-hybrid-fruits-and-vegetables>
- “18 Adorable Mixed-Breed Dogs You’ll Fall in Love With”, article from Good Housekeeping, <https://www.goodhousekeeping.com/life/pets/g3414/cutest-mixed-breed-dogs/>
- All Dog Breeds, list from Dogtime, <https://dogtime.com/dog-breeds/profiles>

Conceptual Knowledge - What Do You Want Them to Know?

1. Hybrid animals are a mix of two different species. They typically cannot reproduce.
2. Hybrid animals receive different traits and features, both external and internal, from each parent.

Key Vocabulary

- **hybrid** - an offspring of two animals or plants of different subspecies, breeds, varieties, or species
- **infertile** - unable to conceive or reproduce and create offspring
- **biodiversity** - the rich variety of life on Earth

Cross-Curricular Links

- Language Arts, Science, Mathematics, Art

Project Idea/Scenario

A project showcasing the complex characteristics of hybrid animals and their place in our world.

Plan the Process: What Will the Students Do?

Students will learn about real-life hybrid animals, from how they occur to the concerns around their existence. They will complete a project that highlights their new knowledge and lets them creatively express their own ideas about hybrid animals.

Warm-up Activity - Activating Background Knowledge

- Share this image with students:



Can they identify the animal? Have students name what characteristics they are using to identify the animal. Once all students have guessed, you can click on the image to get taken to the correct answer.

- Did anyone get the answer correct? Has anyone heard of this animal before, or seen it previously?
- Explain that this animal is a hybrid, and see if students can name any other examples of hybrids, either animals or elsewhere in life. For today, the focus will be on hybrid animals, both real and imagined.

Sequence/Procedure

1. [Read](#) or [listen to](#) the picture book *The Tigon and the Liger*.
 - a. What problem was Tyler having at the beginning? How did he think he would solve his problem? How was his problem actually solved?
 - b. Why did the other animals not want to play with him or Lyla? What changed their minds in the end?
 - c. Of the creatures at the end of the book, how many do you know or have heard of before?
2. Now that you have a little more information about ligers and tigons, [watch a video](#) about ligers.
 - a. What traits does a liger get passed down from their father and their mother? How does this lead to problems?
 - b. Since these creatures only occur in captivity, do you think that humans should keep them from being created in the future? Why or why not?
3. Learn about other hybrid animals, by [reading about them](#) and [watching a video](#).
 - a. What do these animals all have in common? What makes the beefalo different from the others on the list?
 - b. What are the benefits of hybrid animals? What are the issues with humans making these hybrid animals?
4. Do the animals get half of their traits from each parent? Fill out the chart on the Hybrid Animals handout (found on page 9 of the lesson plan) and think about what traits the animal has inherited from each parent. Complete the handout by drawing your own new hybrid animal; try to come up with a hybrid that would provide some benefit to the world, either through improving biodiversity or by solving a problem facing humans or animals.
5. Taking the information about hybridization of animals, select a project from the possible creations list below to complete. Think about it as if you were a scientist that was trying to solve a problem, and you and your team created a new animal that you wanted to share with others. Present your project with facts acknowledging both the good and the bad of your hybrid animal's existence.
6. Share the completed project while enjoying any of the recipes from the World Fusion Raddish kit.

Possible Creations

1. Design your own model (you can use clay, papier-mâché, or other three-dimensional materials) of a real life hybrid animal. Either label or verbally explain which traits the animal inherited from each parent, and how this animal is a benefit or a problem in the natural world.
2. Using your created hybrid animal, create a model of the appropriate habitat your animal would need. If you picture them in a zoo, design an enclosure that features all the different elements it would need, from food to shelter. If it was to live in the wild, what would be the best location for it to live freely and safely? Consider possible predators and how it would be able to find food and shelter on its own, and also how you would ensure the safety of other animals that already live in that geographic area.
3. Introduce your new hybrid to the world! How would you take your new animal on a press tour to introduce this new animal and attract visitors to come and see it? Create a commercial that showcases your new animal and details the unique qualities of your creature that people just have to see to believe.

Extensions

1. [Read](#) or [listen to](#) the picture poem book *Scranimals*. The hybrids in this book are meant to be silly and fanciful, and the poems and illustrations help to bring that message across. If you had to add in a new fanciful element to your hybrid, what animal would you cross it with? Write a poem and draw a new illustration showcasing your new sillier hybrid.
2. Hybrid fruits can be found in your grocery store, but some are more exotic and you might know they exist. Check out [the list of hybrid fruits](#), and think about which one you would like to see at your local store. If it was brought in, how would you suggest advertising it so people would be willing to try it?
3. Hybrid dogs are often popular mixes of different breeds, with people hoping to get the best traits from two different breeds. Browse through [the list of popular hybrid breeds](#), and then use [the list of breeds and their traits from Dogtime](#) to create a guide for people searching to adopt the perfect hybrid for their family. Write some “equations” to show how one breed plus another equals certain characteristics. Include a few different examples to give someone who is searching for a pet some ideas of what hybrids might be best for their lifestyle.

Driving Questions: How does soccer unite the world? What is the history of the men's and women's World Cups?

A Big Bite

Resources

- Soccer Around the World, book by Dale E. Howard, <https://www.amazon.com/Soccer-Around-World-Cup/dp/0516480464>
- What is the World Cup?, book by Bonnie Bader, <https://bookshop.org/books/what-is-the-world-cup-9780515158212/9780515158212>
- "FIFA World Cup Facts for Kids", article from Kiddle, https://kids.kiddle.co/FIFA_World_Cup
- FIFA Women's World Cup Facts for Kids, article from Kiddle, https://kids.kiddle.co/FIFA_Women%27s_World_Cup
- "World Cup", article from Britannica Kids, <https://kids.britannica.com/kids/article/World-Cup/390872>
- Make Your Own Vuvuzela Stadium Horn, how-to guide from Daria Music, <http://www.dariamusic.com/docs/Vuvuzela.pdf>
- The Top 100 Memorable Moments in FIFA World Cup History, video from FOX Sports, <https://www.youtube.com/watch?v=IhPkXcXeY4w> (watch from 34:11 for top 10)
- The Top 50 Most Memorable Moments in FIFA Women's World Cup History, video from FOX Soccer, <https://www.youtube.com/watch?v=uxj72X5vVuk> (32:34 for top 10)
- "The 50 Greatest Footballers of All Time", article from Sports Illustrated, <https://www.si.com/soccer/2019/05/21/50-greatest-footballers-all-time>
- "The 20 greatest female soccer players of all time", article from The Guardian, <https://www.theguardian.com/football/2016/aug/03/the-20-greatest-female-football-players-soccer>
- Best World Cup Goals in History, video from Vanemas2, <https://www.youtube.com/watch?v=WlaWTESjrg>

Project Idea/Scenario

Using the history of soccer and the World Cup, create a project that would bring more excitement and interest to the next generation for upcoming World Cups.

Sequence/Procedure

1. Have you played soccer? Have you watched a soccer game? What are the basic rules of the game?
 - a. What famous soccer players can you name? Do you know a lot about the sport at the professional level? Why or why not?

- b. Soccer, or football as it is most commonly known around the world, is a sport that brings everyone together from many different countries, especially around the time of the World Cup (both men's and women's.) Today we will be learning about the World Cup and soccer in greater detail, and why this sport unifies so many from so many backgrounds.
2. Read the picture book [Soccer Around the World](#), and browse through [What is the World Cup?](#), with particular attention to the first chapter about the beginnings of the World Cup.
 - a. How did the World Cup begin, and how often is it held now?
 - b. Where and when will be the next men's world cup, and the next for women?
 - c. What countries have had the greatest success in soccer?
 3. Fill out the handout on page 10 of the lesson plan of Soccer By the Numbers, using the background information from the articles about men's and women's World Cup history, and by doing your own research.
 4. Watch video about greatest highlights of FIFA World Cup history for both [men](#) and [women](#) (to see top 10 only, skip to 34:11 for men, and to 32:34 for women), and also browse through [the video of the best world cup goals in history](#).
 - a. What do you think made these moments more significant or worthy of attention?
 - b. How are these highlights different from other sports – why do you think that soccer is such a spectator sport? Consider access and the rules of the game.
 - i. (If you are wondering about the background noise in many of the clips, you might be hearing the vuvuzela, an instrument many fans play during games. You can learn how to make your own [here!](#))
 5. Who are the players that have captivated the world and transcended the borders of their team? Browse through the lists of [the greatest men's](#) and [women's soccer players](#), and try to identify what traits have made them worldwide stars.
 6. Select a project from the list below and complete it. Share your finished project while enjoying any of the recipes from World Fusion!

Possible Creations

1. Currently, the World Cup teams are separated by country affiliation, but if you were going to create your own super team of players, what kind of jersey would your team wear? Consider the sponsors for a team that spans multiple countries, the colors, and the team name. Design a jersey that represents your new team.
2. Which player is the best emblem of someone who unified the world around soccer? Create a profile of this player that would be displayed around the world to promote them as the newest ambassador of the sport for kids of all ages to learn from and be inspired by; how would you highlight what makes this player unique? Create a poster that calls out the universal appeal of this soccer player.

3. Research when your country will next host the World Cup, either men's or women's. If your home country will be hosting soon, what city or location would you vote to host matches? Make a slideshow pitch for your location and showcase how your site would be a great spot to bring people from around the world together. Think of other sites, foods, and cultural experiences that your selected location would be able to offer to all the visitors who would come to see the World Cup. (Conversely, if your home country is not hosting anytime soon, how would you make a pitch that your country is a great spot to host the next World Cup? What are the major attractions and advantages that you could offer to FIFA?)

Hybrid Animals

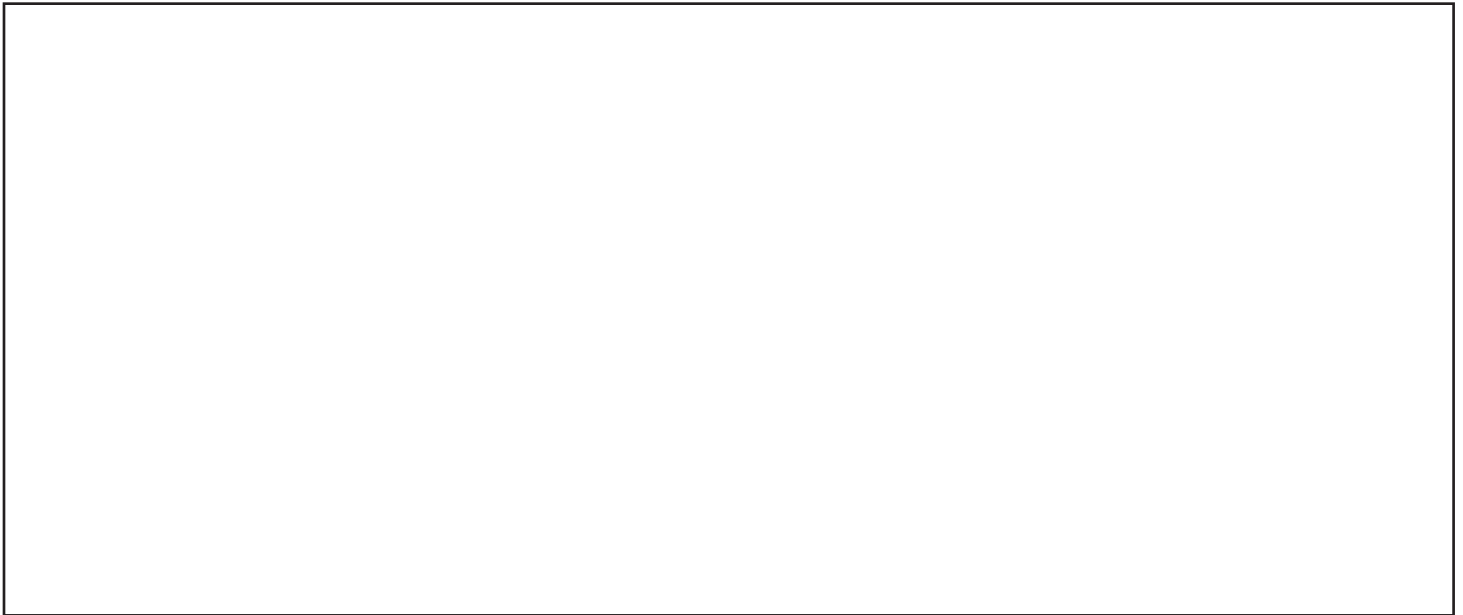
_____ + tiger mom = liger

Lion mom + _____ = tigon

Fill in one you learned about here: _____ + _____ = _____

	Traits from parent 1	Traits from parent 2	What makes it unique?
Liger			
wholphin			
beefalo			

Draw your new hybrid!



Name:

Traits:

Habitat:

Diet:

Soccer By the Numbers

	1991
Number of men's World Cups	
	Number of FIFA world regions
	The age when Ronaldo won FIFA's Best of the World
# of times US Women's Team has won the World Cup	
	The number of times Brazil has won the men's World Cup
160+ countries	
	Number of teams in the men's finals
	Number of teams in women's finals
The number of goals scored by Abby Wambach in World Cup games	
November 21, 2022	
	The number of goals scored by Miroslav Klose in World Cup games
17 years old	
757 goals	
	Number of players on each team
Age of the oldest player in World Cup history	