



High School Science Virtual Learning

**Forensic Science**  
**Tire Impressions**

May 6, 2020

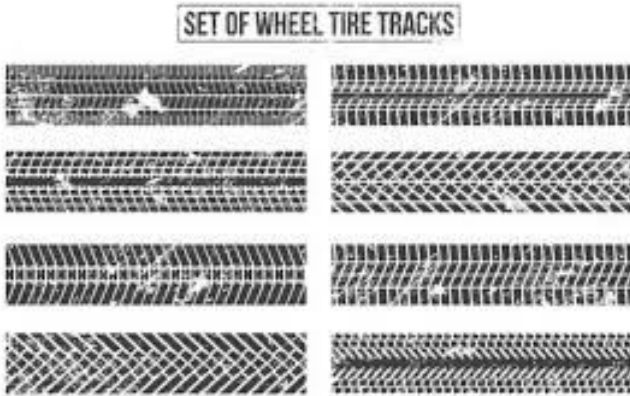


High School Forensic Science  
Lesson: Wednesday, May 6th 2020

**Objective/Learning Target:**

Students will know how to process a tire impression at a crime scene and how to look for unique characteristics.

1. How would the tire tread make a tire track?



### Track vs. Tread

- **Tire Track:** path left in the soil by the wheels of a vehicle
- **Tire Tread:** pattern of tread design on tire



2. What type of evidence is the tire tread pattern?



1. The tire tread is the raised area on the tire that will leave an indentation in mud or other soft surfaces to make a tire track.
2. The tire tread would be class evidence helping you narrow down the impression to a type of tire not an individual person.



# Lesson Activity:

## Directions:

1. Watch the video and answer the questions in the practice section.

**Link(s):** [Tire Tread and Tire Track Evidence](#)



# Practice

You will use the information from the activity on slide 5 to answer the following questions.

## Practice Questions

1. What is the difference between tire tread impressions and tire tracks?
2. What evidence can you find when looking at tire tread impressions?
3. What is the purpose of noise treatment on tires?
4. How do tread wear indicators help investigators?
5. What evidence can you find when looking at tire tracks?

# Answer Key

Once you have completed the practice questions check with the work.

1. Treads show design and dimensional features of individual tires. Tracks show relational dimensions between 2 or more sets of tires.
2. Tread design, noise treatment, tread wear, and random individual characteristics.
3. Complex combinations of these design elements, consisting of small, medium, and large. Allowing manufacturers to vary the size of the tread blocks and minimize noise.
4. Helps pinpoint the section of tire that made the impression.
5. Tire track width (stance), wheelbase dimensions, turning diameter, and relative positions of turning tracks.





# More Practice

You will use the information from the activity on slide 5 to answer the following questions.



## More Practice Questions

1. [Crime Museum](#)
2. Watch the video and take the quiz:  
[Tire Marks Forensic Examination: Methods & Purpose](#)



# Additional Practice

- [Textbook Reading](#)