

Metallurgy Lab: Scratch Test

Name: _____

Spark Test

Date: _____

Directions:

With a partner, use pedestal grinder to observe sparks. One partner conducts the spark test different metal samples. The other partner uses a camera to record sparks produced.

Report:

Insert your photo of the spark test. Sketch a black line drawing of the sparks. Offer an identification for the sample metal based on your spark observation.

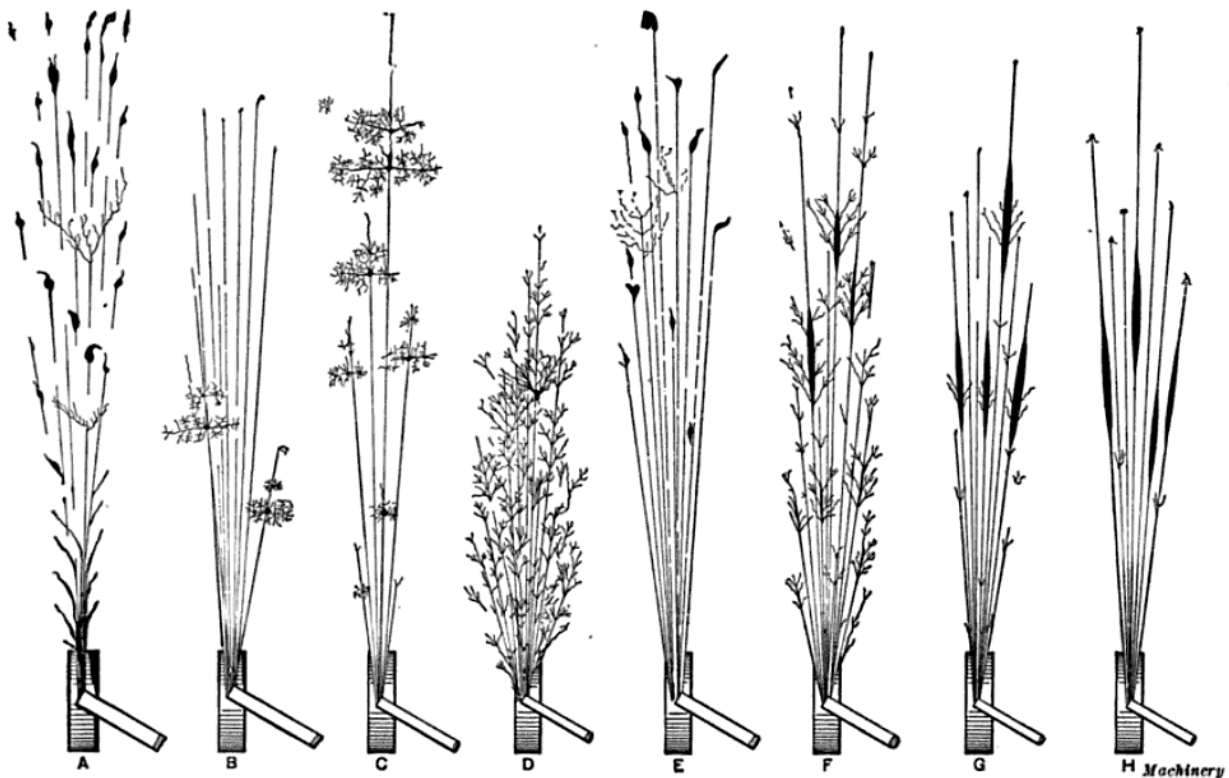


Diagram of sparks for spark testing various types of ferrous materials. (A) Wrought iron, (B) Mild steel, (C) Steel with 0.5-0.85% carbon, (D) High-carbon tool steel, (E) High Speed Steel, (F) Manganese steel, (G) Mushet steel, and (H) Special magnet steel

Image Source: [File:Spark testing 2.png - Wikipedia](#) Available and accessed 6 February 2024.

Report: Insert your photo of the spark test. Sketch a black line drawing of the sparks. Offer an identification for the sample metal based on your spark observation.

	Photo of Sparks	Black Line drawing of sparks	Metal Identification
A.			
B.			
C.			
D.			
E.			
F.			
G.			