

Lesson: Small engine Trouble shooting (Spark)



MASTERY FOCUS (PL-2, PL-3, I-1, I-6) 02/19/2015

Essential Understanding: Engine Spark, Carburetor (fuel) and compression.**Standards:** What will students know, understand, and be able to do?**TEKS**

xx.

ELPS

xx. xx

Key Vocabulary: What key terms will my students need to understand?

Spark, Carburetor, Choke, switch and spark plug.. Spark Plug tester and spark plug socket.

Assessment Plan: How will I assess prior knowledge? How will I know my students mastered standards?

Identify and describe the causes found in the lab.

**LESSON CYCLE** (I-1, I-4, I-5, I-6, I-8)

How will I engage my students in learning? How will I lead my students to mastery?

**1 Engage and Connect (min):****Do Now:**

Xx What causes are due for the small engine not to start?

2 Introduce New Learning (20 min):

X Spark tester, Spark plug socket

3 Lead Guided and Independent Practice (65 min):**Guided Practice (5 min):**

Guide students to identify possible causes the power washer will not start due to .. Weak spark, spark plug gap. Or no ignition coil output.

Independent Practice (60 min):

Class will work on the small engines in groups to find possible causes of the engine spark / ignition failure..

4 Close the Lesson and Assess Mastery (5 min):

Hands on experience removing component of the small engine with tools.

CHECKS FOR UNDERSTANDING (I-2)

X Think pair share causes found in the past lab/ hands on.

X

X

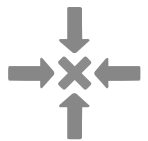
X

Students familiarize (hands on) with the use of spark plug socket, spark plug tester.

X How easy or difficult was it to perform the hands on lab?

DIFFERENTIATION (I-3)

How will I scaffold and/or accelerate learning? For whom? How will I group my students?

SCAFFOLD: Probing questions of related components observed in the past.**ACCELERATE:** Students search videos and explore different valve spring compressors for engines**GROUP:** Give lateral support on students in group that feel more practice is needed.**LOGISTICS (I-6, I-10)****What materials, resources, and technology will I need to prepare and arrange?**

This lesson planning guide is designed to support HISD teachers in using the HISD Curriculum Planning Guides to plan daily lessons that meet the criteria outlined in the HISD Instructional Practice Rubric. The guide is not intended as a template teachers are expected to complete for their lesson planning on a daily basis. Teacher teams might consider using the guide to help them collaborate in lesson planning.

Lesson plan template due to your appraiser by 10:00 PM Sunday.

HISD LESSON PLANNING GUIDE

- Xx Power washer(small engine), lawn mowers hand tools.

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