DESIGNING LEARNING TASKS

Name of Curriculum: Active Physics
STEP 1. IDENTIFY OPPORTUNITIES IN THE CURRICULUM
Lesson and Page Numbers: 2.7 p. 210 - 212
Lesson and Page Numbers: 2. 7 p. 210 - 212 Physics In Action
What is the <u>learning goal</u> ?
· define, measure, calculate Sliding friction · How different surfaces affect mu What data will students either be given or collect to analyze? Sliding friction on various surfaces using
What scientific principle will students use to link their claim and evidence?
Cosepation of Energy
Newtons 3 laws

STEP 2: DESIGN COMPLEXITY OF THE LEARNING TASK

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For each of the following characteristics consider how simple or complex you want the learning task to be depending on the needs of your students.

hat <u>question</u> will you ask students	?			r	1	
nat <u>question</u> will you ask students Do different Sliding friction	sur	fac	esareas basket ba	at all s	tect Shoe	70

What specific data will you either provide students or have students collect?

stiding friction of same shoe on linoleum, rug and grass using spring scales to measure

How much data will you have students analyze?

3 surfaces, 3 trials each taking average of trials

What <u>variation of the framework</u> do you want students to include in their response?

For example – complexity of the evidence, complexity of reasoning and inclusion of rebuttal

Reasoning - want them to use all of Newton's 3 laws to support the claim

STEP 3: CREATE CLASSROOM SUPPORTS

Do you want to include any type of <u>visual representation</u> in your classroom? If yes, describe or sketch the representation.

· Free-body diagram of forces acting on a shoe being pulled across a surface — one -

Do you want to provide students with <u>curricular scaffolds</u>? If yes, draft the scaffolds below.

Consider – content specific, generic or combination AND level of detail to include

- content specific with opening detail similar to example we did.

- Organized into sections with space to write (like example given)