DESIGNING LEARNING TASKS
Name of Curriculum: $\qquad$ (hem.stry

STEP 1: IDENTIFY Opportunities in the Curriculum
Lesson and Page Numbers:

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\text { Inv. II lesson } 12
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What is the learning goal?
Students understand that 3-D structure is important in determining the properties of a materod. noluck

What data will students either be given or collect to analyze?
Students will smell different molecules + be given their 3-D structure.

What scientific principle will students use to link their claim and evidence?

* 3 -D structure is important in determining properties
(ie. ball-shafed mobuckes smell like camphor).

STEP 2: DESIGN COMPLEXITY OF THE LEARNING TASK
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.

What question will you ask students?
How is the shape of a molecular compound related to its smell?

What specific data will you either provide students or have students collect?
I will provide the vials inf the smells and the $3-D$ structure for each molecule. Depending on student investigation, I will provide the basic shapes (stringy linear, pan, ball)
How much data will you have students analyze?
The students will characterize the smell and analyze the structures to determine robed the effect of shape on smell.

What variation of the framework do you want students to include in their response?
For example - complexity of the evidence, complexity of reasoning and inclusion of rebuttal
I will use variation 1 because this structure is new to the students.

STEP 3: CREATE CLASSROOM SUPPORTS
Do you want to include any type of visual representation in your classroom? If yes, describe or sketch the representation.

I will post strategies on the wall to help.

- Claim
- Evidence
- Reasoning

Do you want to provide students with curricular scaffolds? If yes, draft the scaffolds below.
Consider - content specific, generic or combination AND level of detail to include


After the writing, as a review, we will organize our thoughts, but not before writing (I want to see what students can write from their own learning).

