Name: _____ **Date:** _____

1. **In order to download a project to the Brain, the Brain must be _____ to VEXcode EXP, and the Brain icon should show _____.**
   a. Connected; green
   b. Connected; white
   c. Disconnected; green
   d. Disconnected; white

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2. **To open a template project, like the Brain CTE 6-Axis Arm Base template, select _____ in the File menu.**
   a. New Blocks Project
   b. Open
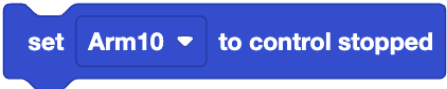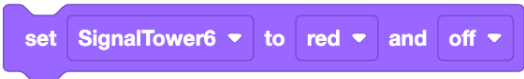   c. Open Examples
   d. Save As

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3. **In the image shown here, which button should you press to run the project on the Brain?**

a.   b.   c.   d.
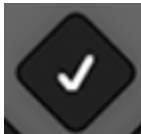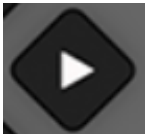
4. Which of the following blocks is used to set the Magnet to engage or release?

a. set `Arm10 ▾` to control stopped	b. set `SignalTower6 ▾` to `red ▾` and `off ▾`
c. set `Arm10 ▾` magnet to `engaged ▾`	d. increment `Arm10 ▾` position by x: `0` y: `0` z: `0` `mm ▾` ▶

5. To stop a project that is running on the Brain, which button should you press?

a.	b.	c.	d.

6. **Which of the following best describes how the 6-Axis Arm will need to move to pick up and move the Disk to the pallet?**

a. Move to the top of the Disk; release the Magnet; move the 6-Axis Arm to location 17 on the second Tile; press the Signal Tower; move above the drop off location on the pallet; lower the 6-Axis Arm; engage the Magnet; lower the 6-Axis Arm up to see the Disk deposited.

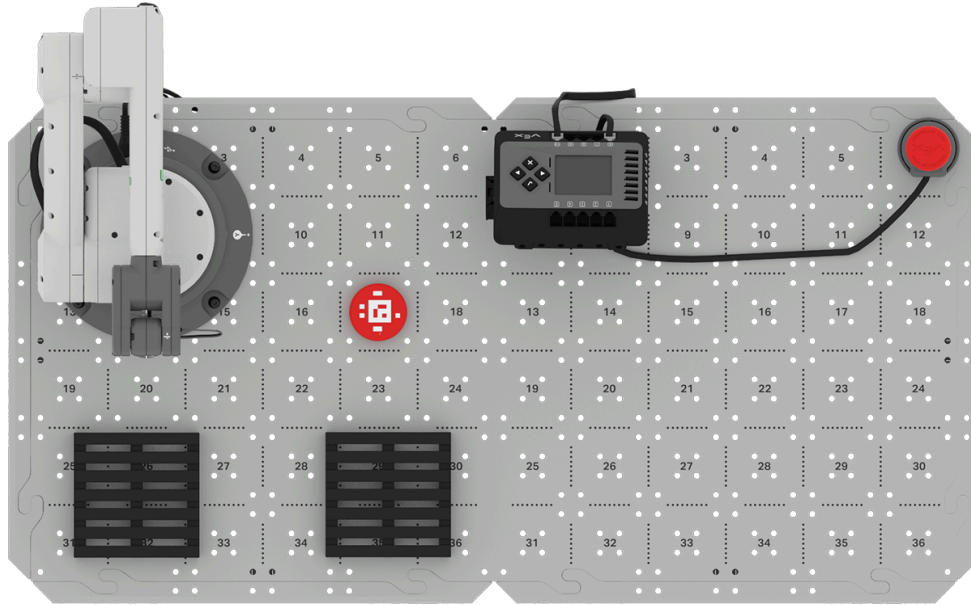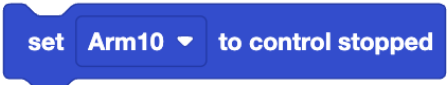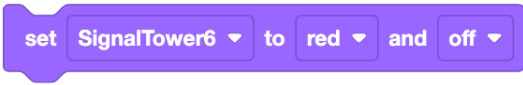b. Move to the top of the Disk; engage the Magnet; raise the 6-Axis Arm up to pick up the Disk; move above the drop off location on the pallet; lower the 6-Axis Arm; release the Magnet; raise the 6-Axis Arm up to see the Disk deposited.

c. Move to the drop off location on the pallet; release the Magnet; move to the top of the Disk; engage the Magnet; lower the 6-Axis Arm up to see the Disk deposited.

d. Move to the drop off location on the pallet; release the Magnet; raise the 6-Axis Arm; move above the pick up location; lower the 6-Axis Arm; engage the Magnet; raise the 6-Axis Arm up to see the Disk deposited.

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7. **Which of the following blocks is used to move the 6-Axis Arm incrementally along an axis?**

a. set Arm10 ▼ to control stopped	b. set SignalTower6 ▼ to red ▼ and off ▼
c. increment Arm10 ▼ position by x: 0 y: 0 z: 0 mm ▼	d. set Arm10 ▼ magnet to engaged ▼

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8. **Reflect on your learning in this Unit so far. On a scale of 1 to 5, with 1 being 'Not confident at all' and 5 being 'Very confident,' how confident are you that you will reach your learning targets for this unit? (Circle one)**

            1   2   3   4   5

What questions or uncertainties do you have, if any, about the material in the first two lessons of the unit that need to be addressed in order for you to meet your learning targets? Be prepared to discuss this question with your instructor.

_____

_____

_____

9. **Now that you have completed this Lesson, how are you feeling about what you are learning in this Unit? On a scale of 1 to 5, with 1 being 'Completely disinterested' and 5 being 'Very excited and motivated to learn more', rate your level of excitement and interest in this Unit. (Circle one)**

            1   2   3   4   5

Additionally, briefly explain why you chose this rating.

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