NAVSEA
SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

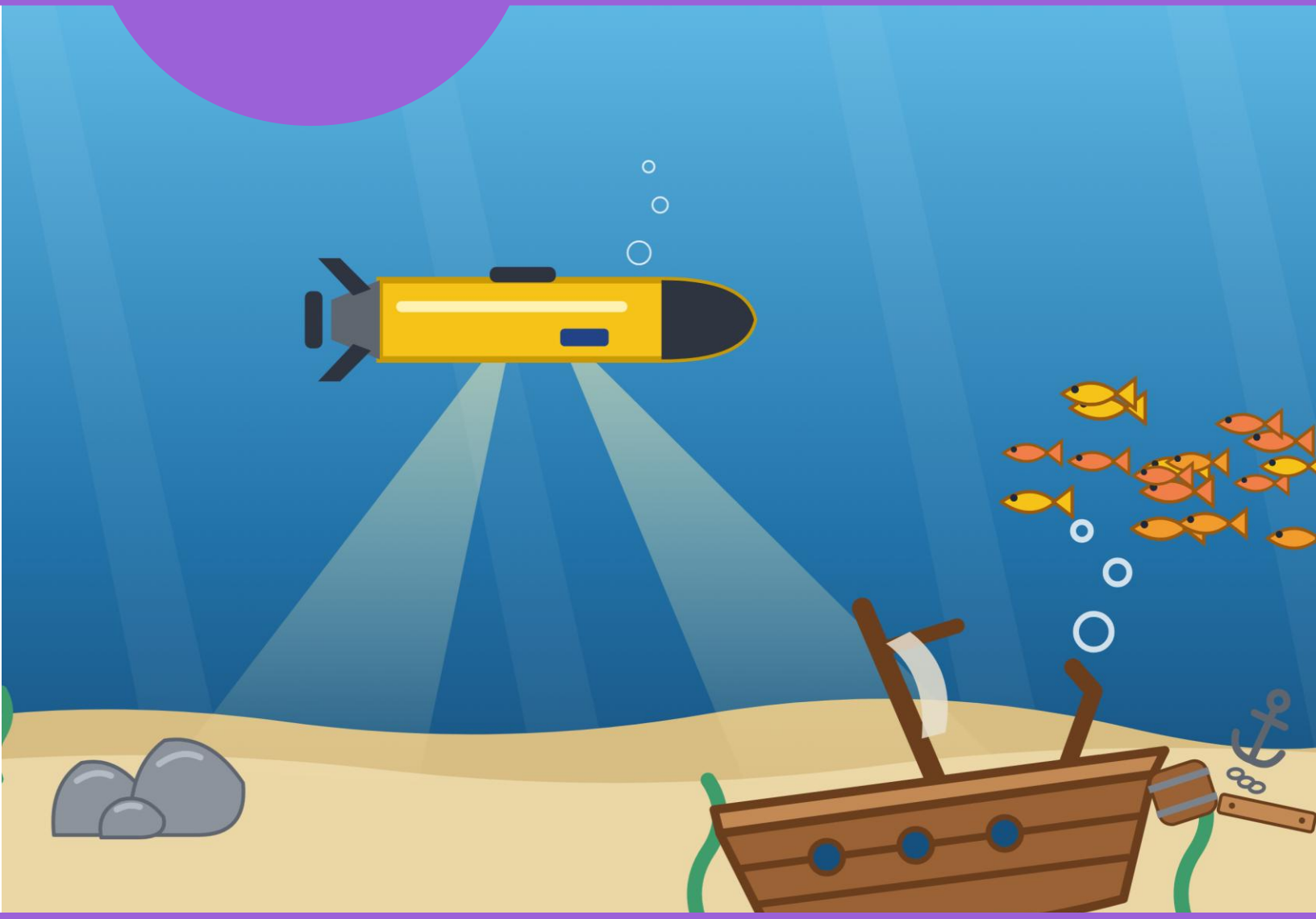
#SeaworthySTEM

Tracking a Shipwreck:

Training an AI Underwater Robot

Ages 6-8

Student Activity Workbook



Seaworthy STEM™ in a Box Series

NAVSEA
SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

NAVAL STEM
SCIENCE · TECHNOLOGY · ENGINEERING · MATHEMATICS

Office of Naval Research
ONR
Science & Technology

1 Mission Log: Missions 1 and 2

Team: _____

In each square the AUV visits, write the **step number** and draw what you found:

 ★  +  •  ~  o  B

Mission 1

	A	B	C	D
1	Start			
2				
3				
4				

Battery: cross off 1 bar for each move.

Found the shipwreck?

YES **NO**

Battery bars used: _____

Now fill in your team's Score Sheet. Keep the stars on the AI's Brain!

Mission 2

	A	B	C	D
1	Start			
2				
3				
4				

Battery: cross off 1 bar for each move.

Found the shipwreck?

YES **NO**

Battery bars used: _____

Now fill in your team's Score Sheet. Keep the stars on the AI's Brain!

1 Mission Log: Mission 3 and the Final Test

In each square the AUV visits, write the **step number** and draw what you found:

 ★  +  •  ~  o  B

Mission 3

	A	B	C	D
1	Start			
2				
3				
4				

Battery: cross off 1 bar for each move.

Found the shipwreck?

YES **NO**

Battery bars used: _____

Now fill in your team's Score Sheet. Keep the stars on the AI's Brain!

Final Test

	A	B	C	D
1	Start			
2				
3				
4				

Battery: cross off 1 bar for each move.

Found the shipwreck?

YES **NO**

Battery bars used: _____

No new stars in the Final Test! Then fill in the last row of your team's Score Sheet.

2 Design Your Own Ocean AI

AI robots can help take care of the ocean. They could find trash, count whales, or check on coral reefs. **You are the designer!** Draw your robot and tell how it will learn.



My name: _____

My AI robot will look for: _____

It will get a star when: _____

It will help the ocean because: _____

Draw your ocean AI robot here.