SINK OR FLOAT

PREDICT. TEST. NOTICE.

SCIENTIST _____ DATE _____

MISSION QUESTION

Can I use evidence to explain why an object sinks or floats?

1. MAKE A PREDICTION BEFORE EACH TEST

Circle sink or float, explain your reason, then lower the object gently and record the result.

OBJECT	MY PREDICTION	WHY?	RESULT
	SINK ○ FLOAT ○		SINK ○ FLOAT ○
	SINK ○ FLOAT ○		SINK ○ FLOAT ○
	SINK ○ FLOAT ○		SINK ○ FLOAT ○
	SINK ○ FLOAT ○		SINK ○ FLOAT ○
	SINK ○ FLOAT ○		SINK ○ FLOAT ○
	SINK ○ FLOAT ○		SINK ○ FLOAT ○

2. FIND THE SURPRISE

Which result surprised you most? What clue changed your thinking?

_____

_____

PROFESSAUR'S CLUE

Weight alone does not decide the result. Look at material, shape, trapped air and displaced water.

SINK OR FLOAT

BUILD. COMPARE. IMPROVE.

SCIENTIST _____ **DATE** _____

3. DESIGN YOUR DINOSAUR RESCUE RAFT

Use one foil square. Draw your plan before you build. Label the features that should help it float.

DRAW AND LABEL RAFT 1

MY PREDICTION

My raft will hold this many cargo pieces:

Write a number

Why?

RAFT 1 TEST

Cargo held before water entered or it sank:

Evidence I noticed:

CHANGE ONE THING

I will change:

I predict this will help because:

RAFT 2 TEST

Cargo held before water entered or it sank:

Evidence I noticed:

MY EVIDENCE-BASED CONCLUSION

My change made the raft:

BETTER SAME WORSE

I know because:

4. WHAT WOULD YOU TEST NEXT?

Write one new question that could be answered with another fair test.