Test Blueprint STS Science 9th Grade

Question No.	Main Topic	Learning / Question Indicator	Cognitive Level
1	Food Resources	Identifying the primary goal of improving food resources.	Understanding
2	Food Resources	Explaining the purpose of crop rotation in soil management.	Understanding
3	Food Resources	Defining the role of hybridization in creating better crop varieties.	Understanding
4	Food Resources	Recognizing the term for raising birds (chickens/ducks) for eggs and meat.	Recall
5	Food Resources	Identifying the primary source where plants obtain their nutrients.	Recall
6	Food Resources	Identifying the term for systematic care and breeding of domestic animals.	Recall
7	Food Resources	Defining weeds based on their competition with main crops.	Recall
8	Food Resources	Explaining the necessity of drying grains to prevent spoilage during storage.	Application
9	Food Resources	Identifying the dual purpose of cattle farming.	Recall
10	Food Resources	Explaining the advantage of cross-breeding local and foreign cattle.	Understanding
11	Food Resources	Distinguishing the specific purpose of raising broilers as chickens specifically for meat.	Recall
12	Food Resources	Identifying the term for fish farming practiced in ocean-based cages.	Recall
13	Food Resources	Identifying the primary reasons for beekeeping.	Understanding
14	Food Resources	Defining “intercropping” as a pattern of growing multiple crops on the same land.	Recall

15	Food Resources	Explaining the main benefit of composite fish culture in pond zones.	Understanding
16	Sound	Explaining why sound cannot travel through the vacuum of outer space.	Understanding
17	Sound	Identifying material vibration as the primary cause of sound production.	Recall
18	Sound	Determining the medium in which sound waves travel at the highest speed.	Recall
19	Sound	Associating the high pitch of a sound with high wave frequency.	Understanding
20	Sound	Associating the loudness of a sound with its wave amplitude.	Understanding
21	Sound	Identifying the term for sounds above the limit of human hearing (Bats).	Recall
22	Sound	Recognizing the phenomenon of an echo as a reflection of sound waves.	Recall
23	Sound	Identifying the physics principle used in SONAR for depth measurement.	Understanding
24	Sound	Defining wavelength as the distance between consecutive compressions.	Analysis
25	Sound	Identifying the first part of the human ear to vibrate when catching sound.	Recall
26	Sound	Identifying the use of soft materials for sound absorption in studios.	Application
27	Sound	Recognizing ultrasound as the technology used for medical imaging.	Recall
28	Sound	Identifying resonance as the sympathetic vibration between matching objects.	Understanding
29	Sound	Explaining the application of ultrasound for cleaning delicate tools.	Recall
30	Sound	Explaining the mechanism of detecting internal cracks in metal using sound pulses.	Analysis